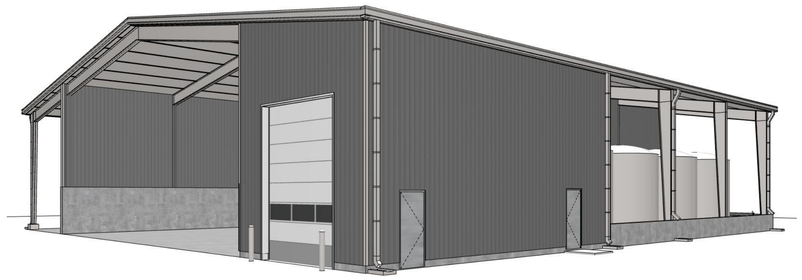


** IMAGE FOR REF. ONLY **

ITD D4 BLISS YARD SALT/MATERIAL SHED

BLISS, IDAHO

ABBREVIATIONS

AE, GYP. BRD.	ACOUSTICALLY ENCHANCED GYPSUM BOARD
A.F.F.	ABOVE FINISHED FLOOR
A.T.	ACOUSTICAL TILE
A.T.B.	ALUMINUM THERMAL BARRIER
ADJ.	ADJUSTABLE
ALUM.	ALUMINUM
B.P.	BLOCK PAINTED
BLDG.	BUILDING
BLK.	BLOCK
BLKT.	BLANKET
BRD.	BOARD
BTM.	BOTTOM
C.	CARPET
C.I.P.	CAST-IN-PLACE
C.T.	CERAMIC TILE
C.W.	COLD WATER
CLG.	CEILING
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DN.	DOWN
DR.	DOOR
DRWG.	DRAWING
EA.	EACH
E.F.S.	EXTERIOR FINISH SYSTEM
E.I.F.S.	EXT. INSUL. & FIN. SYSTEM
ELECT.	ELECTRICAL
ELEV.	ELEVATION
E.P.	ELECTRICAL PANEL
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.L.	FLOW LINE
G.B.	GRAB BAR
GND.	GROUND
GYP.	GYPSUM
H.B.	HOSE BIB
H.M.	HOLLOW METAL
JT.	JOINT
LAM.	LAMINATE
MTL.	METAL
O.C.	ON CENTER
PART. BRD.	PARTICLE BOARD
PEMB.	PRE-ENGINEERED METAL BUILDING
P. L.	PROPERTY LINE
P. LAM.	PLASTIC LAMINATE
P.T.D.	PAPER TOWEL DISPENSER
PRE. FIN.	PRE-FINISHED
R.D.	ROOF DRAIN
REQ.	REQUIRED
S.D.	SOAP DISPENSER
S.S.	SANITARY SEWER
SHT.	SHEET
SHTG.	SHEATING
SPEC.	SPECIFICATION
STD.	STANDARD
STL.	STEEL
SUSP.	SUSPENDED
SYS.	SYSTEM
T & G	TONGUE & GROOVE
T.B.C.	TOP BACK OF CURB
T.T.D.	TOILET TISSUE DISPENSER
T.T.J.	TIGHT TO JOIST
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
W/	WITH
W.	WATER
W/D	WASHER / DRYER
W.P.	WATER PROOF

SCHEDULE OF ALTERNATES

SCHEDULE OF ALTERNATES

1. ADD ALTERNATE NO. 1: BRINE PRODUCTION AND OBSERVATION ENCLOSURE

A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID INCLUDES ALL FOOTINGS, FOUNDATIONS, AND CONCRETE SLABS ON GRADE AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL EXCLUDE CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. BASE BID EXCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS. BASE BID INCLUDES ELECTRICAL LIGHTING, POWER, AND AS INDICATED ON THE DRAWINGS.

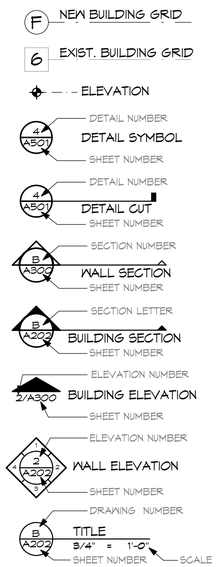
B. ADD ALTERNATE: ALL WORK ASSOCIATED WITH CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. ALTERNATE INCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS INCLUDING ELECTRICAL FOR THE OVERHEAD DOOR OPERATOR AND CONTROLS.

2. ADD ALTERNATE NO. 2: ASPHALT PAVING AT EXTERIOR OF BUILDING.

A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL INCLUDE ALL SUB-GRADE AND FINISHED GRADE IN PREPARATION FOR ASPHALT PAVING. BASE BID ALSO INCLUDES ASPHALT PAVING ON THE INTERIOR OF THE SALT STORAGE PORTION OF THE BUILDING WHERE INDICATED ON THE DRAWINGS.

B. ADD ALTERNATE: ALL WORK ASSOCIATED WITH THE CONSTRUCTION AND INSTALLATION OF THE 2.5" THICK EXTERIOR ASPHALT PAVING AS INDICATED ON THE DRAWINGS.

SYMBOLS



DRAWING INDEX

PROJECT DESCRIPTION

PROJECT INCLUDES CONSTRUCTION OF A NEW 10,000 SQUARE FOOT SALT STORAGE FACILITY FOR ITD LOCATED ADJACENT TO THEIR BLISS, IDAHO MAINTENANCE FACILITY. THE NEW STORAGE BUILDING WILL ALSO PROVIDE A COVERED LOADER STORAGE SPACE ALONG WITH COVERED BRINE STORAGE AND A FUTURE BRINE PRODUCTION FACILITY.

SPECIAL INSPECTION

COORD. W/ STRUCTURAL

GENERAL NOTES

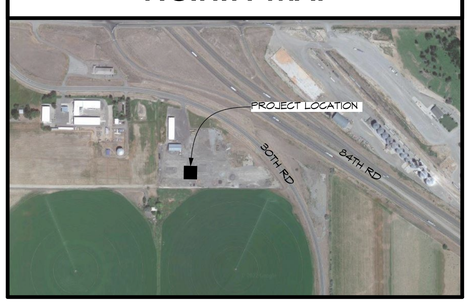
1) THE ARCHITECT OF RECORD IS NOT RESPONSIBLE FOR INTERPRETING THE INTENT OF THESE CONSTRUCTION DOCUMENTS, INCLUDING MAKING MODIFICATIONS AS MAY BE NECESSARY DURING THE CONSTRUCTION PHASE. THE ARCHITECT OF RECORD IS NOT LIABLE FOR THE WORK WHERE CHANGES TO THESE DOCUMENTS HAVE BEEN MADE.

2) CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWINGS AND NOT SCALED FROM DRAWINGS. THE ARCHITECT SHALL FURNISH ANY MISSING DIMENSIONS UPON WRITTEN REQUEST.

3) ALL WORK SHALL CONFORM TO PREVAILING CODES, ORDINANCES AND REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION AND SHALL PAY ALL APPLICABLE FEES.

4) DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS OR SPECIFICATIONS. INFORMATION AFFECTING THE WORK OF OTHER TRADES MAY BE COVERED ON OTHER SHEETS.

VICINITY MAP



CONTACTS

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IDAHO FALLS, IDAHO 83401
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FAX (208) 227-8405

MECHANICAL AND ELECTRICAL ENGINEERS

MUSGROVE ENGINEERING, P.A.
645 WEST 25TH STREET
IDAHO FALLS, ID 83402
PHONE: 208 523-2862

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REGISTERED PROFESSIONAL ARCHITECT
ID 987379
MATTHEW FRANKEL
STATE OF IDAHO

AIA NCARB ASID

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

TITLE SHEET

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

JOB NUMBER: 22566

PROJECT DATE: March 2023

SHEET
G100

CHAPTER 3

USE AND OCCUPANCY

LEVEL	OCCUPANCY TYPE (302.1)	OCCUPANCY LOAD FACTOR (1004.1.2)	OCCUPANCY AREA	MAX. OCCUPANCY LOAD
1	S-2	500 (WAREHOUSE)	10,000 S.F.	20
		TOTAL OCCUPANCY		20

CHAPTER 4

REQUIREMENTS BASED ON USE

CHAPTER 5

BUILDING HEIGHTS AND AREAS

ALLOWED HEIGHT (TABLE 504.3)

OCCUPANCY TYPE	TYPE OF CONSTRUCTION	ALLOWED HEIGHT	ACTUAL HEIGHT
S-2	V-B	40'-0"	31'-3"

ALLOWED STORIES (TABLE 504.4)

OCCUPANCY TYPE	TYPE OF CONSTRUCTION	ALLOWED STORIES	ACTUAL STORIES
S-2	V-B	2	1

ALLOWED BUILDING AREA (506.2)

OCCUPANCY TYPE	TYPE OF CONSTRUCTION	ALLOWED AREA SQ./FT. PER FLOOR	ACTUAL AREA SQ./FT. PER FLOOR
S-2	V-B	13,000	10,000

CHAPTER 6

TYPES OF CONSTRUCTION

TYPE OF CONSTRUCTION (602.1)	V-B

FIRE RESISTIVE REQ. FOR BLDG. ELEMENTS (TABLE 601)

PRIMARY STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
NON BEARING EXTERIOR WALLS	0 HR
FLOOR CONSTRUCTION	0 HR
ROOF/FLOOR ABOVE CONSTRUCTION	0 HR

CHAPTER 7

FIRE AND SMOKE PROTECTIONS

CHAPTER 8

INTERIOR FINISHES

INTERIOR WALL AND CEILING REQUIREMENTS BY OCCUPANCY (TABLE 803.11)

OCCUPANCY TYPE	CLASS	FLAME SPREAD	SMOKE
S-2	C	76-200	0-450

CHAPTER 9

FIRE PROTECTION SYSTEMS

AUTOMATIC SPRINKLER SYSTEM	
MAX DISTANCE TO FIRE EXTINGUISHER 906.3(1)	75 FEET

NOTES

CHAPTER 10

MEANS OF EGRESS

NUMBER OF EXITS (1006.2.1)

OCCUPANCY	MAX OCC. LOAD	REQUIRED EXITS	PROVIDED EXITS
S-2	20	1	3

MAX COMMON PATH OF EGRESS (TABLE 1006.2.1)

OCCUPANCY TYPE	MAX TRAVEL	ACTUAL
S-2	100'-0"	0'-0"

MAX EXIT TRAVEL DISTANCE (TABLE 1017.2)

OCCUPANCY TYPE	MAX TRAVEL	ACTUAL
S-2	300'-0"	99'-0"

1019.2 ALL OCCUPANCIES

EXIT ACCESS STAIRWAYS AND RAMPS THAT SERVE FLOOR LEVELS WITHIN A SINGLE STORY ARE NOT REQUIRED TO BE ENCLOSED.

ZONING INFORMATION

LAND USE ZONE = N/A

IBC CODE 2018
OCCUPANCY GROUPS: S-2
CONSTRUCTION TYPE: V-B
AREA OF BUILDING: 10,000 S.F.
FIRE SPRINKLERS: NO
FIRE ALARM SYSTEM: NO

CHAPTER 29

PLUMBING

LEVEL	OCCUPANCY TYPE (302.1)	WATER CLOSETS REQUIRED/PROVIDED 1 PER 100		LAVATORIES REQUIRED/PROVIDED 1 PER 100		DRINKING FOUNTAINS REQUIRED/PROVIDED 1 PER 1000	SERVICE SINKS REQUIRED/PROVIDED 1 PER FLOOR
		FEMALE	MALE	FEMALE	MALE		
1	S-2	.17/1	.17/1	.17/1	.17/1	.017/1	1/1
	TOTALS:	1/1	1/1	1/1	1/1	1/1	1/1

TOILET FIXTURES FOR FAGILITY ARE PROVIDED IN ADJACENT MAINTENANCE SHED AND ARE WITHIN 500'-0"

2902.3.3 LOCATION OF TOILET FACILITIES IN OCCUPANCIES OTHER THAN MALLS

IN OCCUPANCIES OTHER THAN COVERED AND OPEN MALL BUILDINGS, THE REQUIRED PUBLIC AND EMPLOYEE TOILET FACILITIES SHALL BE LOCATED NOT MORE THAN ONE STORY ABOVE OR BELOW THE SPACE REQUIRED TO BE PROVIDED WITH TOILET FACILITIES, AND THE PATH OF TRAVEL TO SUCH FACILITIES SHALL NOT EXCEED A DISTANCE OF 500 FEET (152 M).

LOCATION AND CODES

PROPERTY

ITD BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

CURRENTLY ADOPTED CODES

INTERNATIONAL BUILDING CODE	2018
INTERNATIONAL ENERGY CONSERVATION CODE	2018
IDAHO STATE PLUMBING CODE	2018
NATIONAL ELECTRICAL CODE	2018
INTERNATIONAL FIRE CODE	2018
INTERNATIONAL MECHANICAL CODE	2018
INTERNATIONAL FUEL GAS CODE	2018

ZONING

BUILDING SETBACK

PROPERTY LINE	MIN. DISTANCE	PROVIDED
NORTH	N/A	223'-5"
EAST	N/A	386'-3"
SOUTH	N/A	185'-10"
WEST	N/A	289'-0"

LANDSCAPE SETBACK

LOCAL	N/A	N/A
COLLECTOR	N/A	N/A
ARTERIAL	N/A	N/A
ENTRYWAY CORRIDOR	N/A	N/A
INTERSTATE	N/A	

PARKING

PARKING STALLS	N/A	N/A
ADA PARKING STALLS	N/A	N/A
BIKE RACKS	N/A	N/A

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REGISTERED PROFESSIONAL ARCHITECT
AR 987379
MATTHEW FRANKEL
STATE OF IDAHO
2023

AIA NCARB ASID

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

CODE REVIEW

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

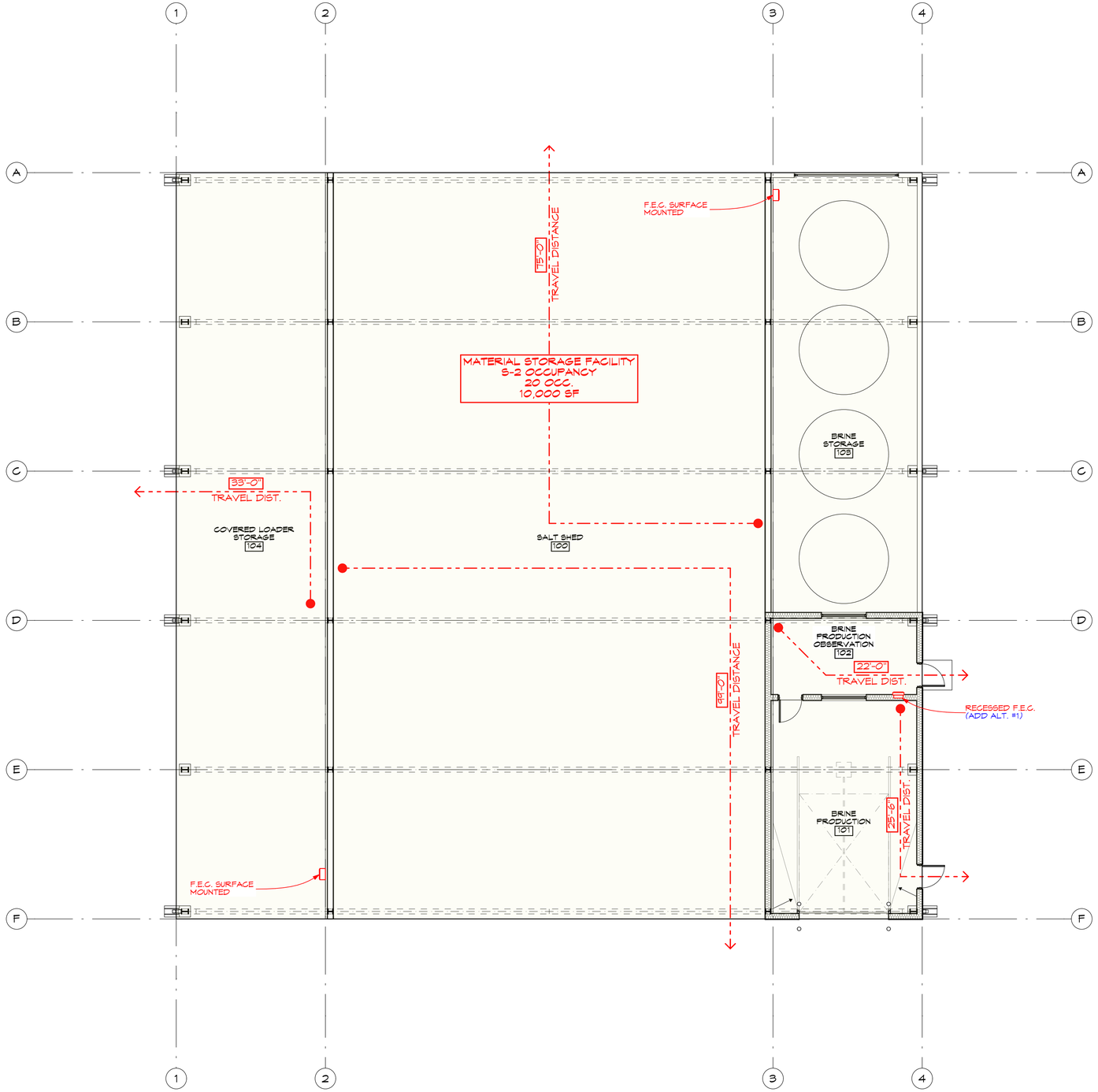
DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

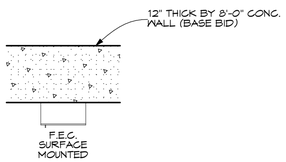
JOB NUMBER: 22566

PROJECT DATE: March 2023

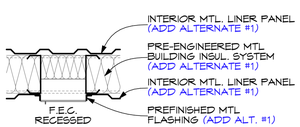
SHEET
G101



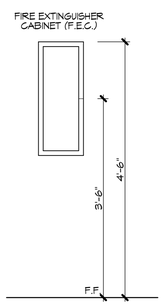
F.E.C. NOTES:
FIRE EXTINGUISHER CABINETS TO BE INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE FIRE EXTINGUISHERS. REFER TO SHEET G102 FOR F.E.C. LOCATIONS.



SURFACE MOUNTED F.E.C. DETAIL
SCALE: 3/4" = 1'-0"



RECESSED F.E.C. DETAIL (ADD ALT. #1)
SCALE: 3/4" = 1'-0"



F.E.C. ELEVATION
SCALE: 3/4" = 1'-0"

1 / G102 **CODE REVIEW PLAN**
SCALE: 1/8" = 1'-0"

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REGISTERED PROFESSIONAL ARCHITECT
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MATTHEW FRANKEL
STATE OF IDAHO
AIA NCARB ASID

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

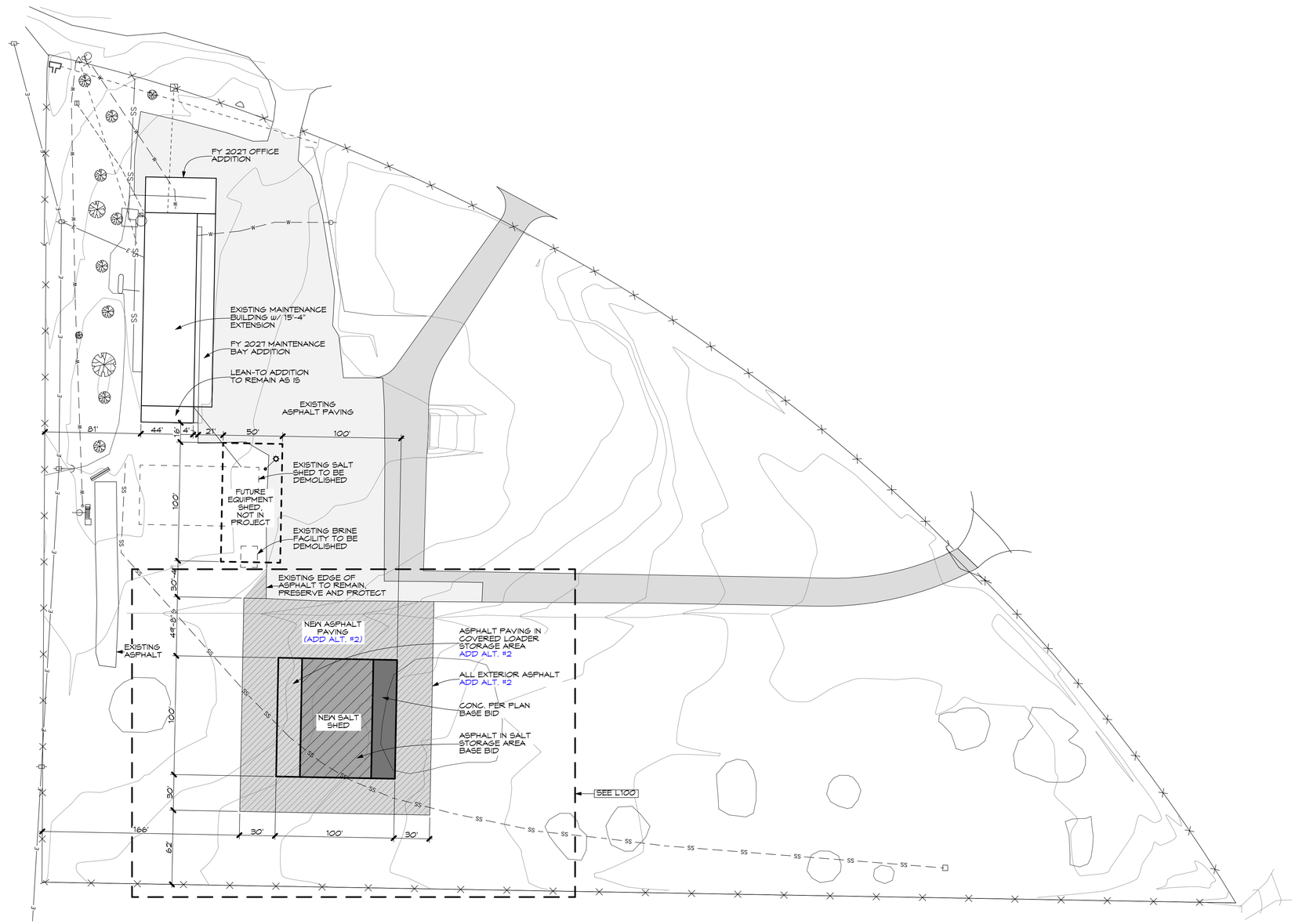
SHEET TITLE:
CODE REVIEW PLAN w/ F.E.C. DETAILS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

JOB NUMBER: 22566
PROJECT DATE: March 2023
SHEET G102



1 SP100 **OVERALL SITE PLAN**
SCALE: 1" = 50'

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REGISTERED PROFESSIONAL ARCHITECT
AR 987379
MATTHEW FRANKEL
STATE OF IDAHO
2023

AIA NCARB ASID

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

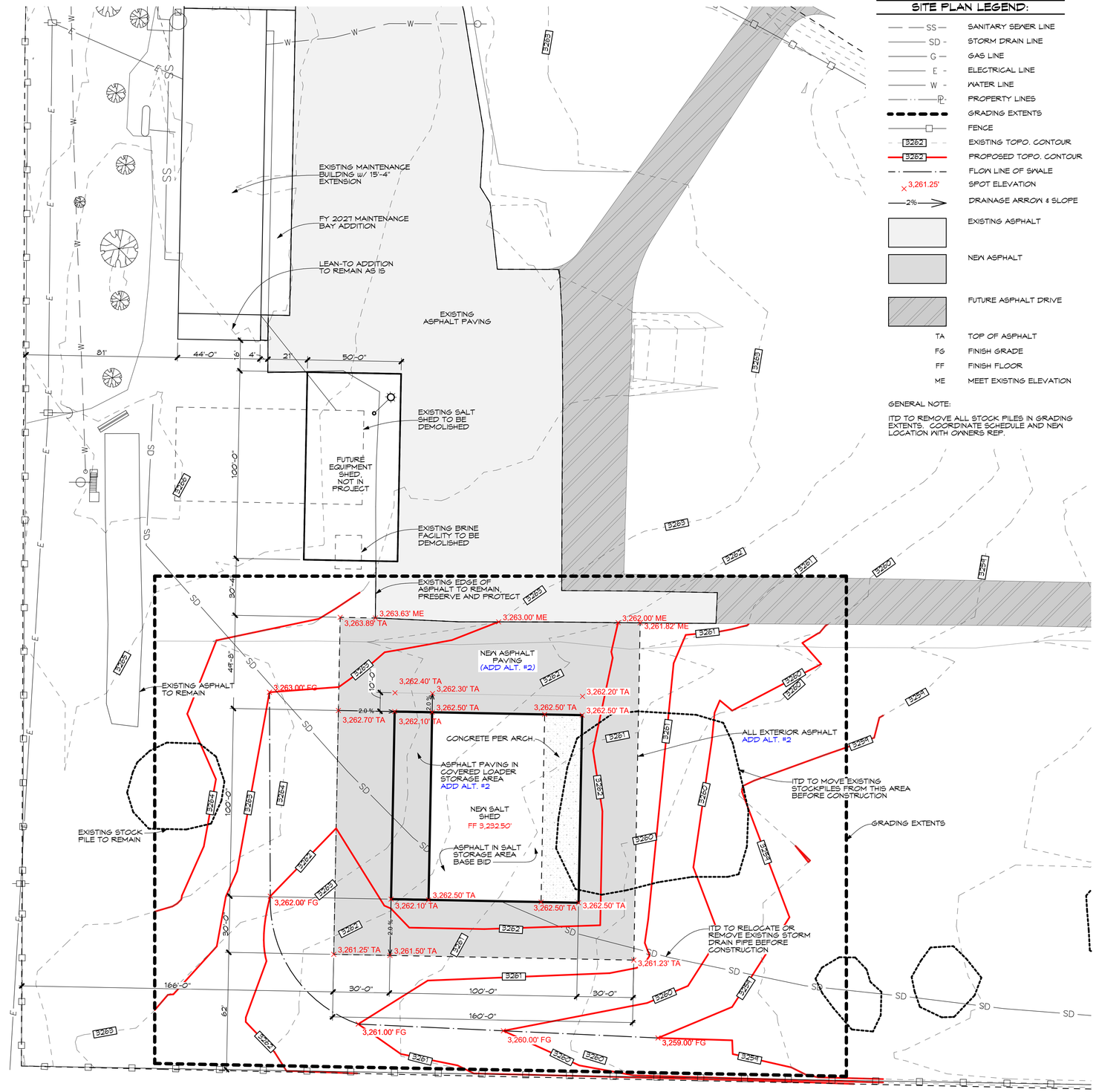
SHEET TITLE:
OVERALL SITE PLAN

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

JOB NUMBER: 22566
PROJECT DATE: March 2023
SHEET **SP100**

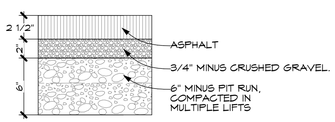


SITE PLAN LEGEND:

SS	SANITARY SEWER LINE
SD	STORM DRAIN LINE
G	GAS LINE
E	ELECTRICAL LINE
W	WATER LINE
PL	PROPERTY LINES
	GRADING EXTENTS
	FENCE
3262	EXISTING TOPO. CONTOUR
3262	PROPOSED TOPO. CONTOUR
	FLOW LINE OF SWALE
3,261.25'	SPOT ELEVATION
2%	DRAINAGE ARROW & SLOPE
	EXISTING ASPHALT
	NEW ASPHALT
	FUTURE ASPHALT DRIVE
TA	TOP OF ASPHALT
FG	FINISH GRADE
FF	FINISH FLOOR
ME	MEET EXISTING ELEVATION

GENERAL NOTE:

ITD TO REMOVE ALL STOCK PILES IN GRADING EXTENTS. COORDINATE SCHEDULE AND NEW LOCATION WITH OWNERS REP.



2 / L100 ASPHALT PAVEMENT DETAIL
SCALE: 1 1/2"= 1'-0"

1 / L100 GRADING PLAN
SCALE: 1" = 30'

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STATE OF IDAHO ★ JAREN WILLIAM HOFF ★ LICENSED LANDSCAPE ARCHITECT
CA-16906
03/22/23

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:
GRADING PLAN

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

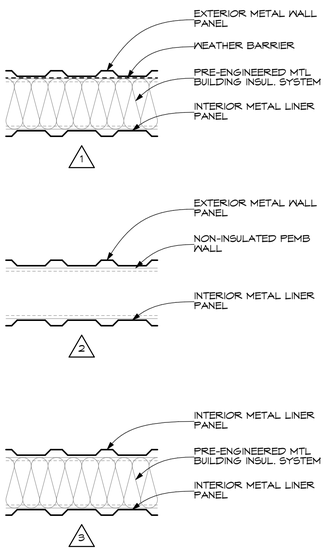
REVISION	DATE

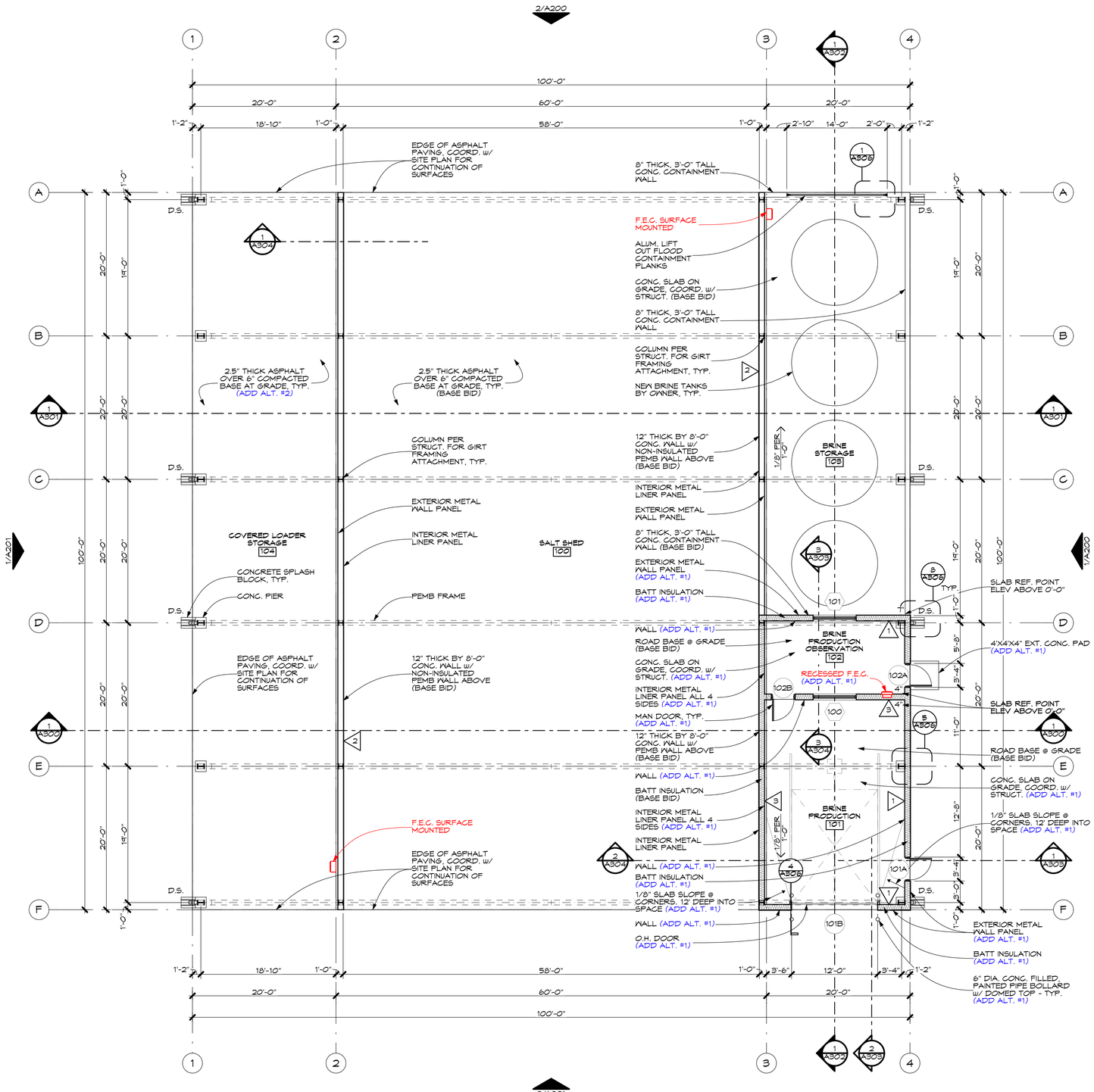
DRAWN BY: JH
CHECKED BY: JH
JOB NUMBER: 22567
PROJECT DATE: March 2023
SHEET L100

PROJECT NOTES

1) NEW CONC. SLABS, ALL FACES OF EXPOSED STEM WALLS, AND CONCRETE COLUMN PIERS TO RECEIVE SIKAGARD 705L CONCRETE SEALER. COORD. W/ MANUF. FOR PREP. AND APPLICATION CONDITIONS.

WALL TYPE SCHEDULE





1 A100 **FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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REGISTERED PROFESSIONAL ARCHITECT
ID 987379
MATTHEW FRANKEL
STATE OF IDAHO
AIA NCARB ASID

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

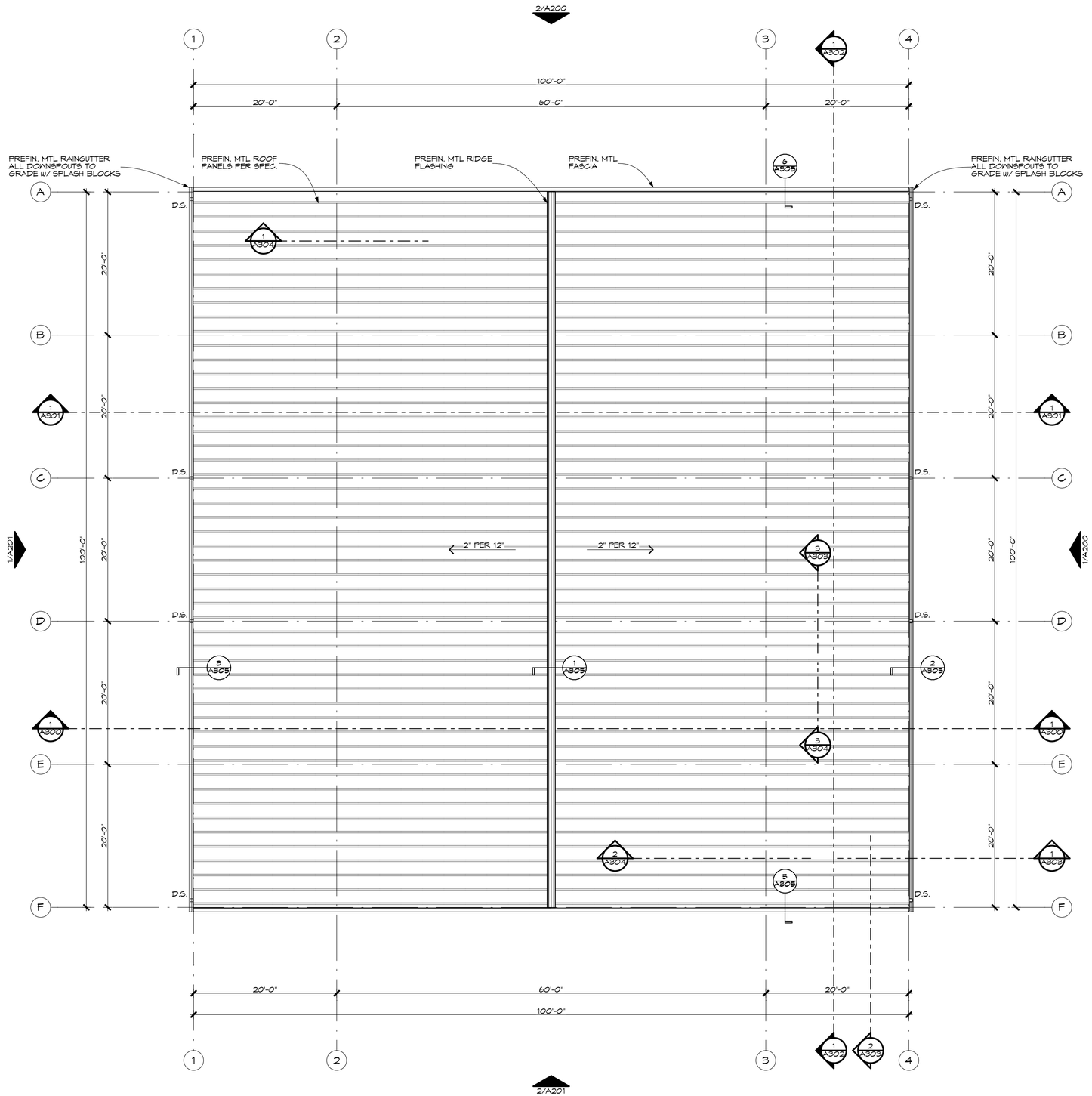
SHEET TITLE:
FLOOR PLAN w/ WALL TYPES

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

JOB NUMBER: 22566
PROJECT DATE: March 2023
SHEET **A100**



1 / A101 FLOOR PLAN

SCALE: 1/8" = 1'-0"

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REGISTERED PROFESSIONAL ARCHITECT
AR 987379
MATTHEW FRANKEL
STATE OF IDAHO

AIA NCARB ASID

PROJECT:

ITD D4 BLISS YARD SALT/MATERIAL SHED

BLISS, IDAHO

SHEET TITLE:

ROOF PLAN

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

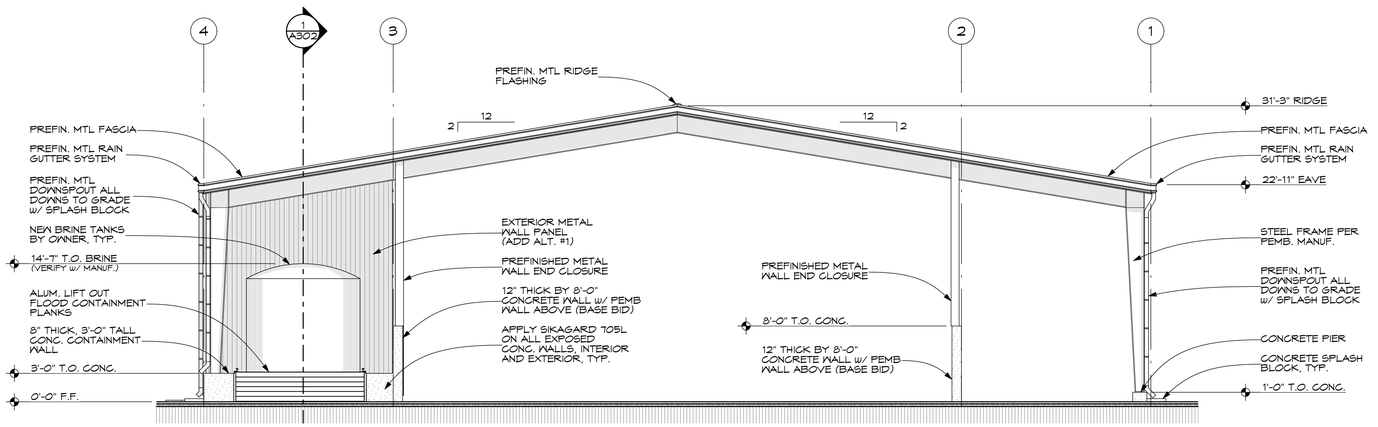
DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

JOB NUMBER: 22566

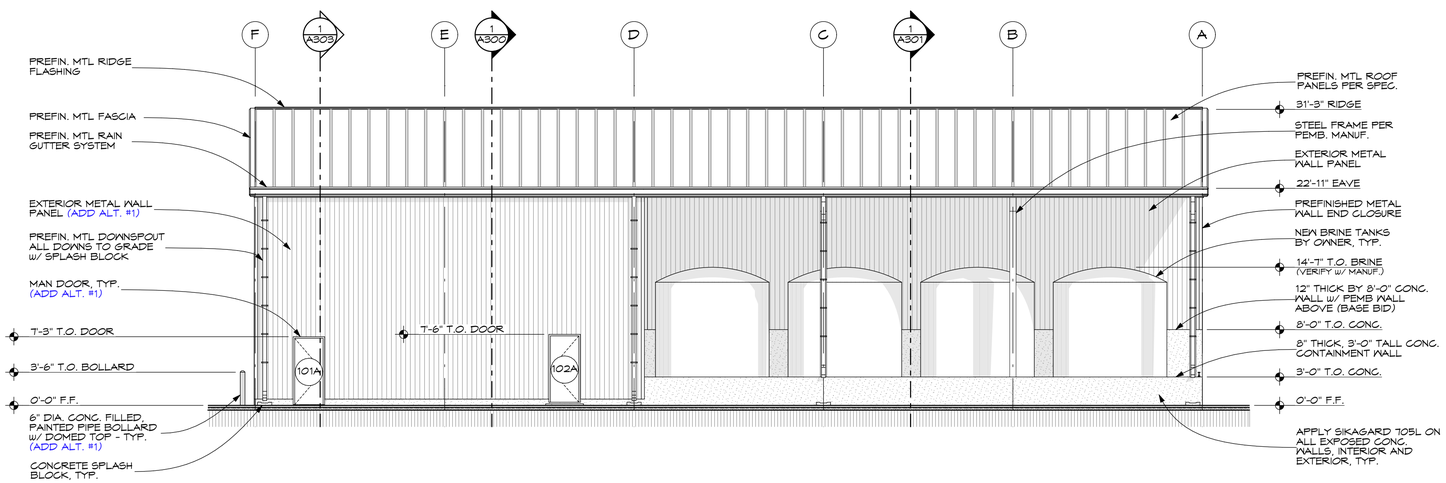
PROJECT DATE: March 2023

SHEET A101



2 NORTH ELEVATION

A200 1/8" = 1'-0"



1 EAST ELEVATION

A200 1/8" = 1'-0"

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REGISTERED PROFESSIONAL ARCHITECT
AR 987379
MATTHEW FRANKEL
STATE OF IDAHO
2023

AIA NCARB ASID

PROJECT:
ITD D4 BLISS YARD
SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

EXTERIOR ELEVATIONS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

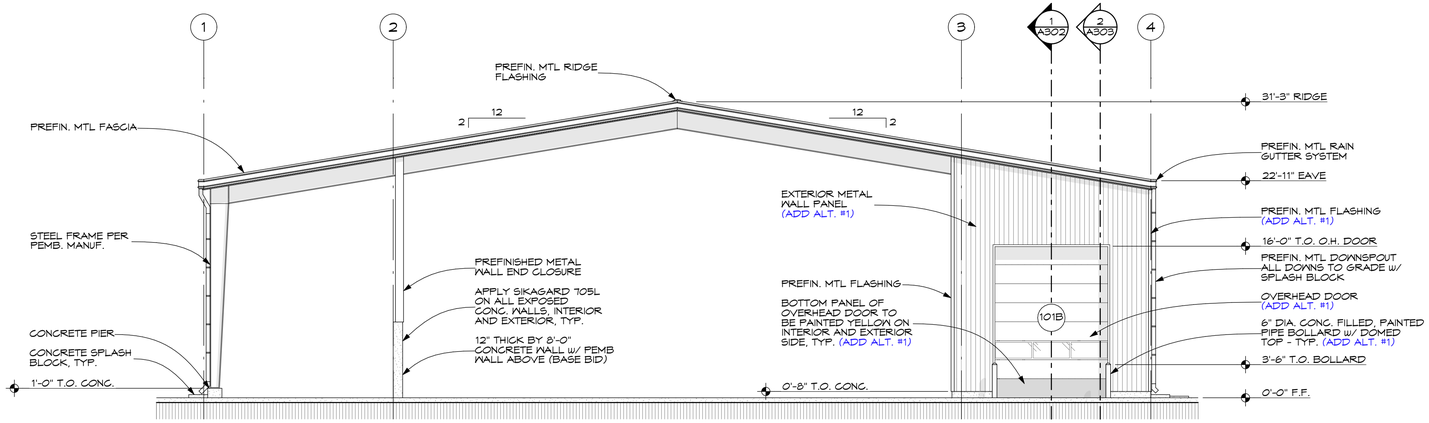
DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

JOB NUMBER: 22566

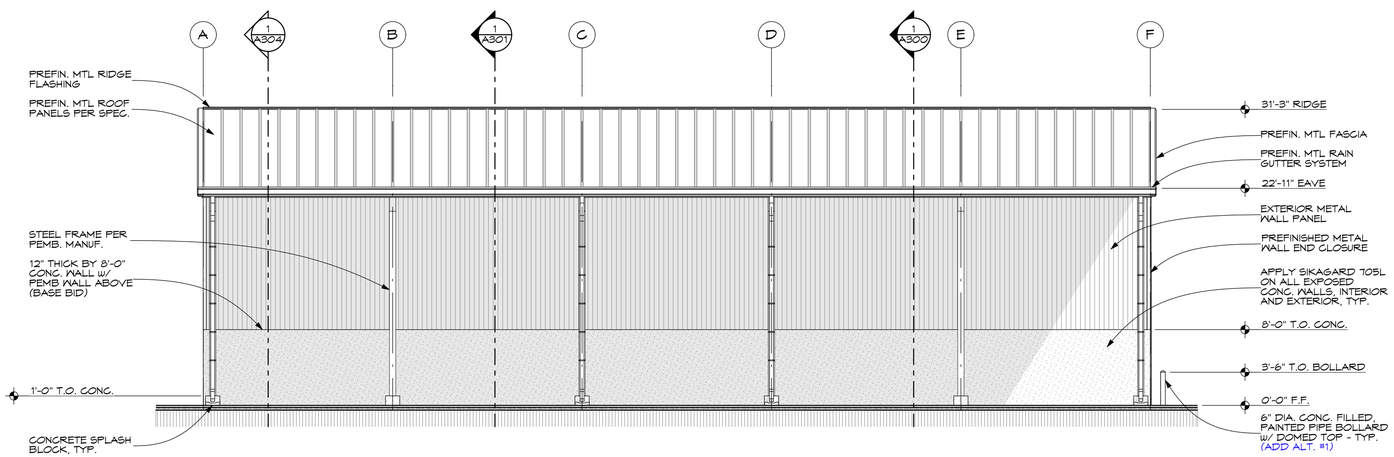
PROJECT DATE: March 2023

SHEET
A200



2 SOUTH ELEVATION

A201 1/8" = 1'-0"



1 WEST ELEVATION

A201 1/8" = 1'-0"

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REGISTERED PROFESSIONAL ARCHITECT
AR 987379
MATTHEW FRANKEL
STATE OF IDAHO
3/22/23

AIA NCARB ASID

PROJECT:
ITD D4 BLISS YARD
SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

EXTERIOR ELEVATIONS

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DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

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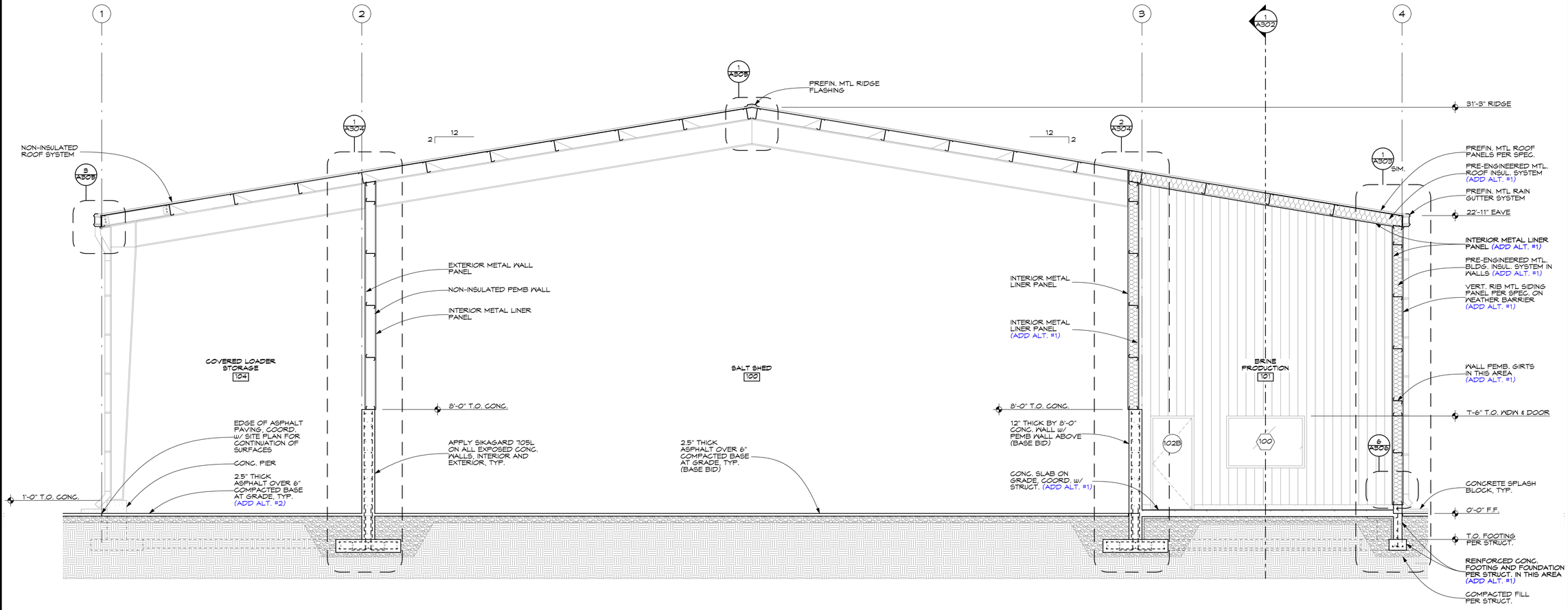
PROJECT DATE: March 2023

SHEET A201



1 A300 **BUILDING SECTION**

SCALE: 1/4" = 1'-0"

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STATE OF IDAHO
2023

AIA NCARB ASID

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ITD D4 BLISS YARD SALT/MATERIAL SHED

BLISS, IDAHO

SHEET TITLE:

BUILDING SECTONS

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DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

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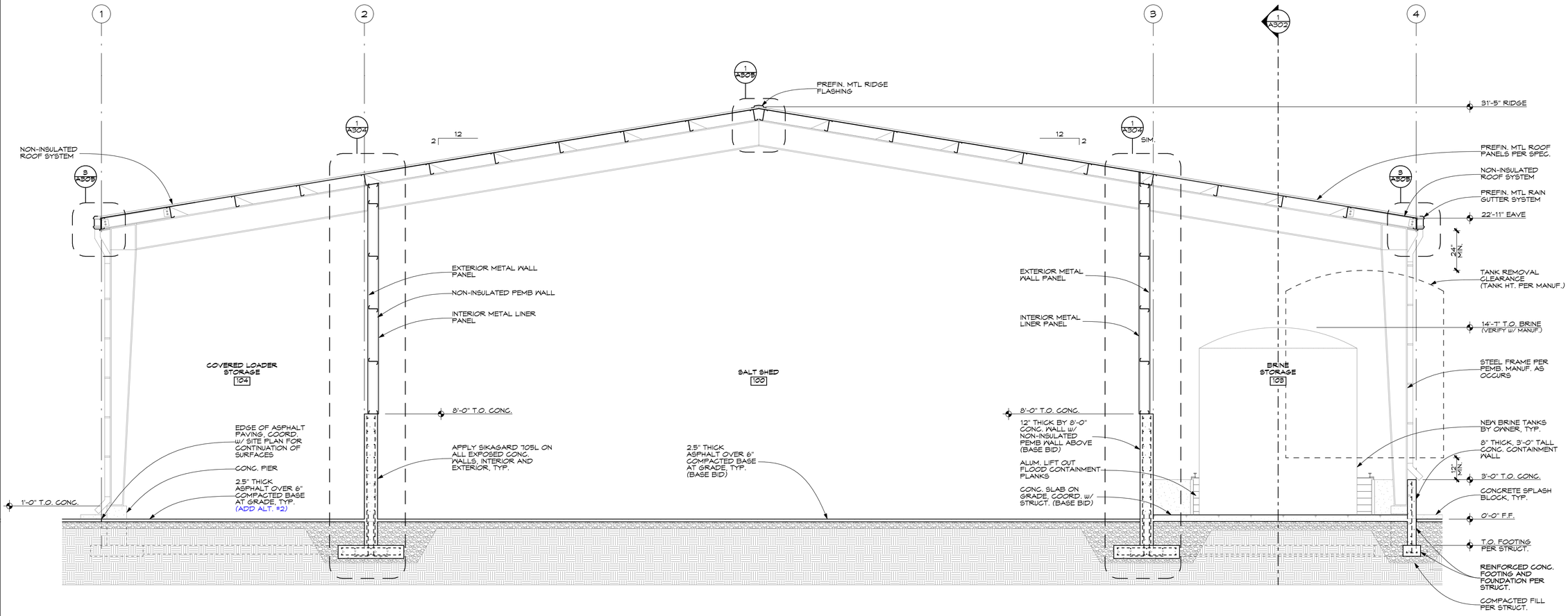
PROJECT DATE: March 2023

SHEET **A300**



1 A301 BUILDING SECTION
SCALE: 1/4" = 1'-0"

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BLISS, IDAHO

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BUILDING SECTON

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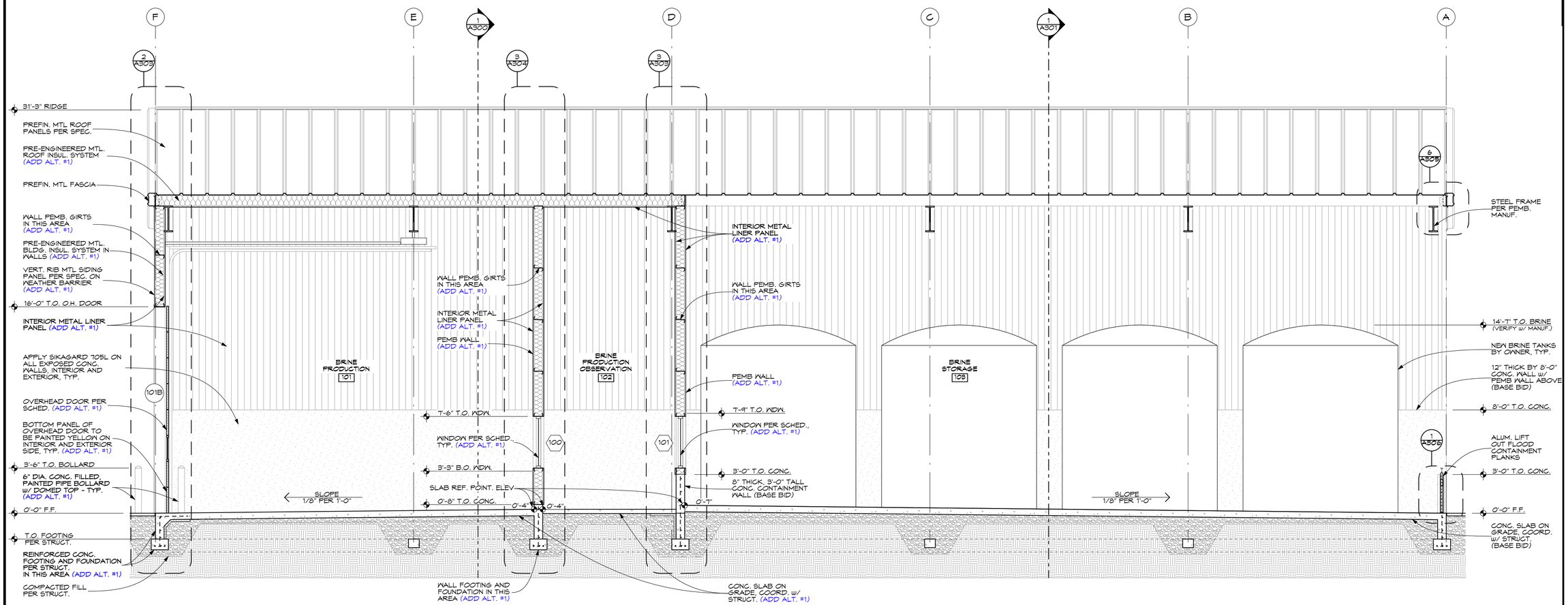
DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

JOB NUMBER: 22566

PROJECT DATE: March 2023

SHEET
A301



1 A302 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"

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BLISS, IDAHO

SHEET TITLE:

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DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

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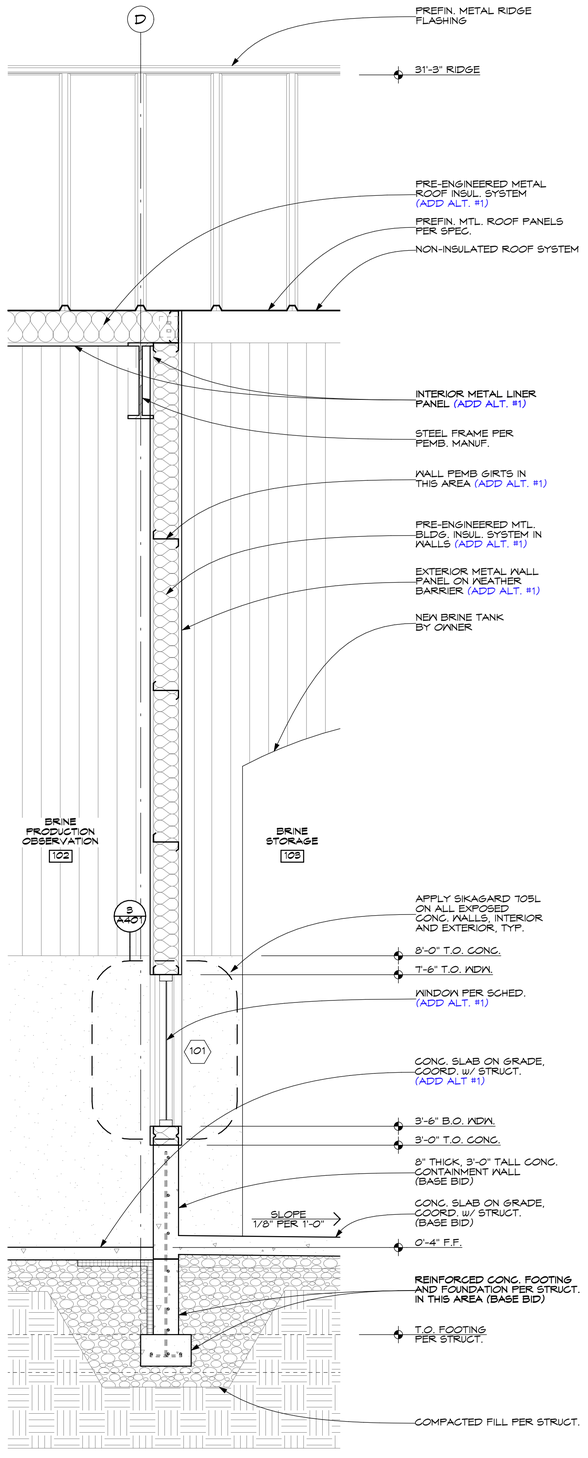
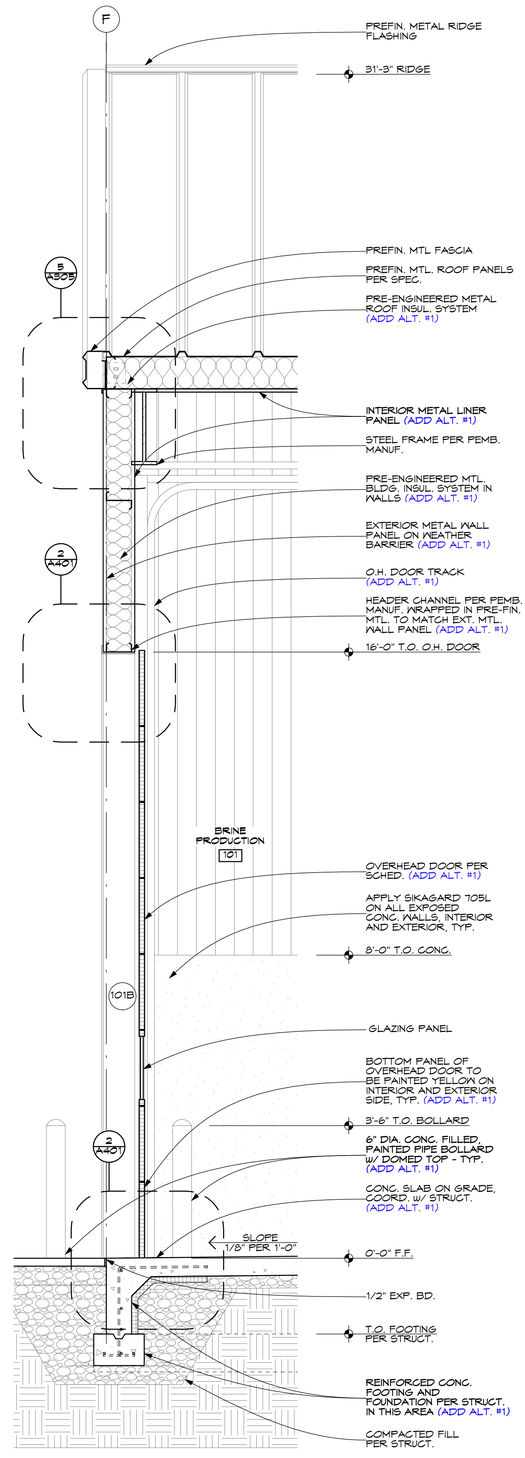
PROJECT DATE: March 2023

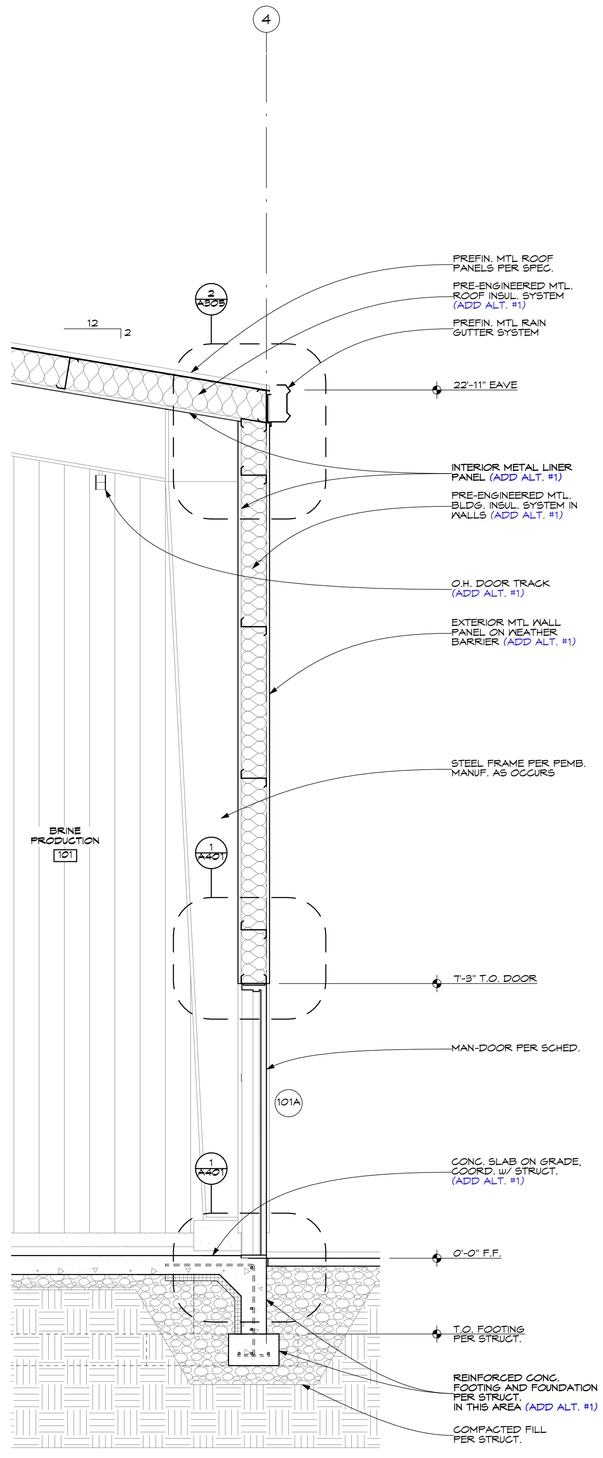
SHEET **A302**



3 A303 WALL SECTION
SCALE: 1/2" = 1'-0"



2 A303 WALL SECTION
SCALE: 1/2" = 1'-0"



1 A303 WALL SECTION
SCALE: 1/2" = 1'-0"

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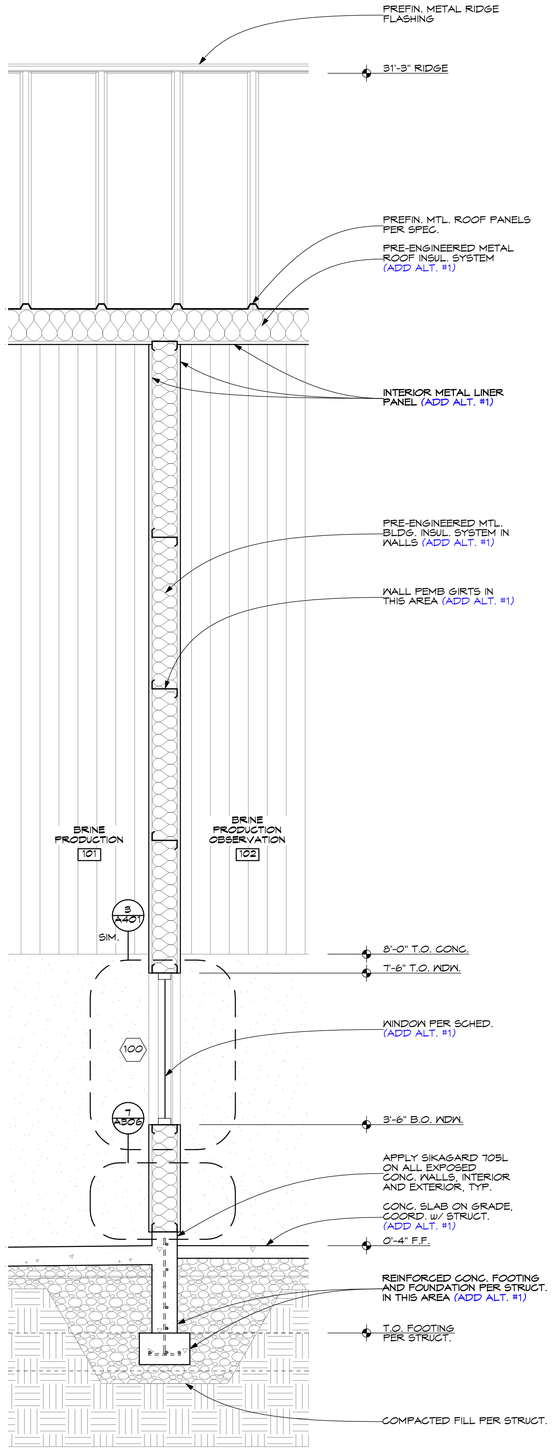
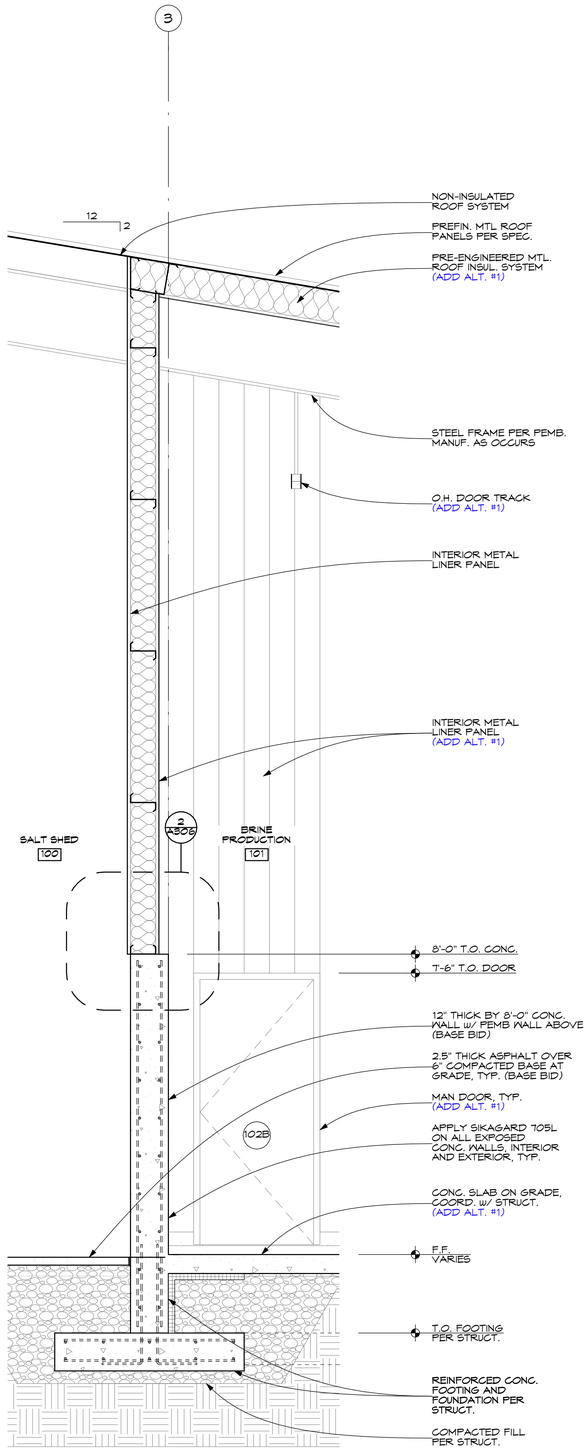
DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

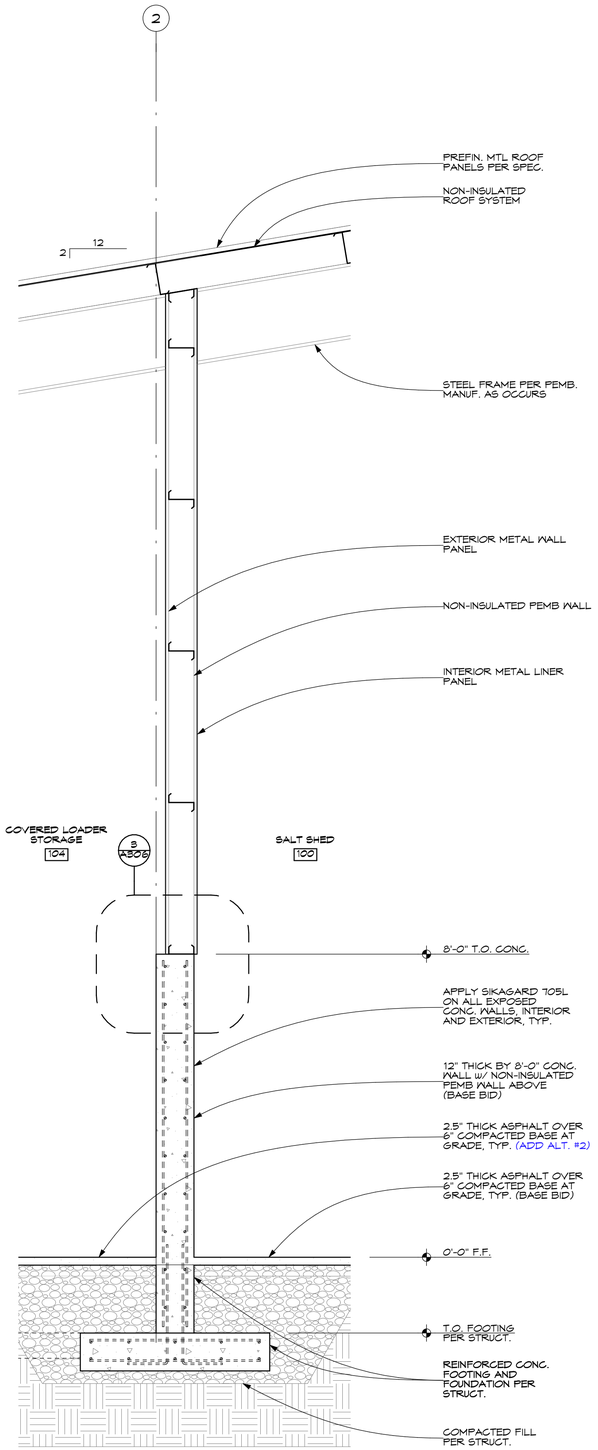
JOB NUMBER: 22566
PROJECT DATE: March 2023
SHEET A303



3 A304 **WALL SECTION**
SCALE: 1/2" = 1'-0"



2 A304 **WALL SECTION**
SCALE: 1/2" = 1'-0"



1 A304 **WALL SECTION**
SCALE: 1/2" = 1'-0"

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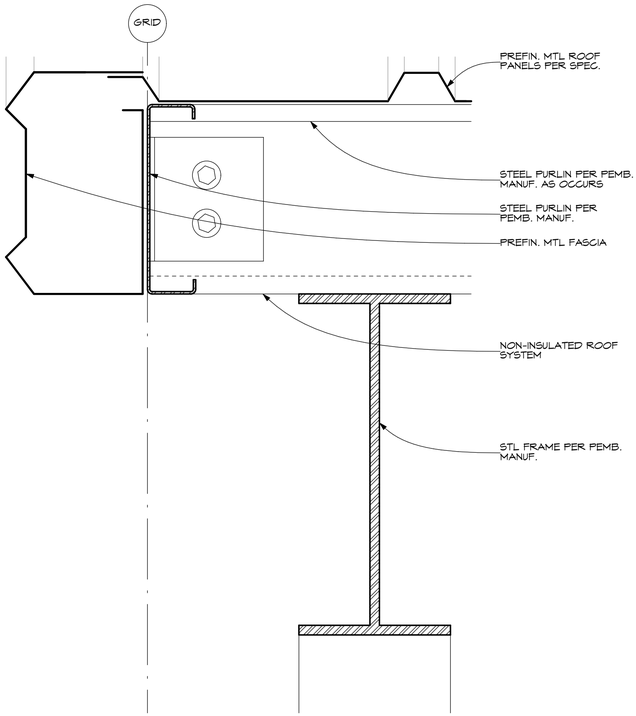
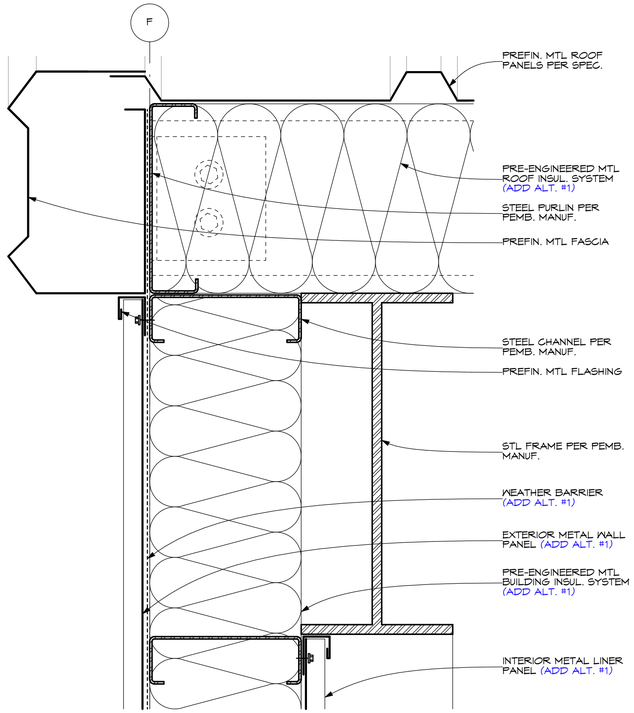
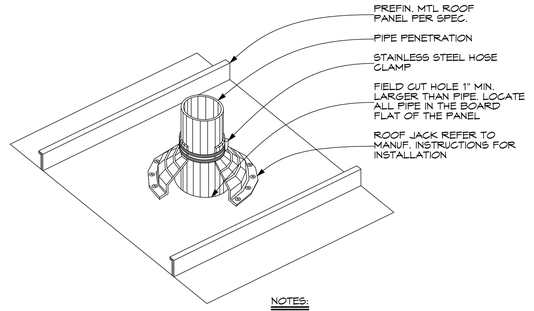
SHEET **A304**



6 A305 **FASCIA DETAIL**
SCALE: 3" = 1'-0"



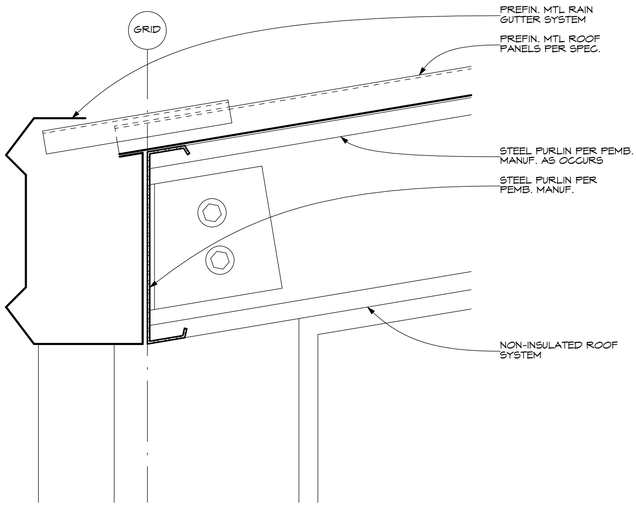
5 A305 **FASCIA DETAIL**
SCALE: 3" = 1'-0"



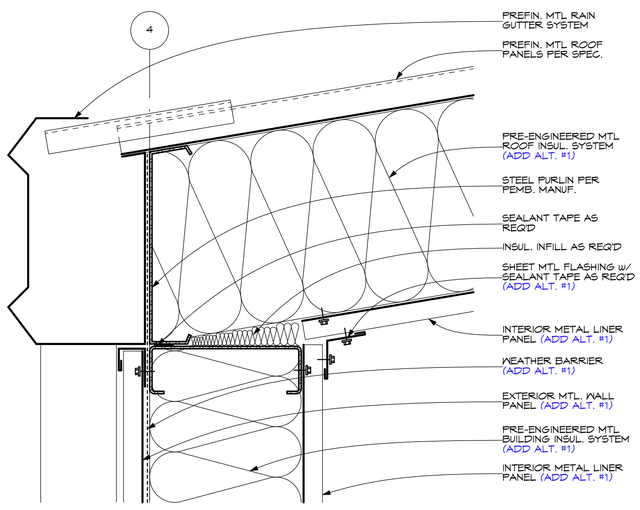
NOTES:

1. PENETRATIONS SHOULD BE CENTERED IN PANELS IF AT ALL POSSIBLE

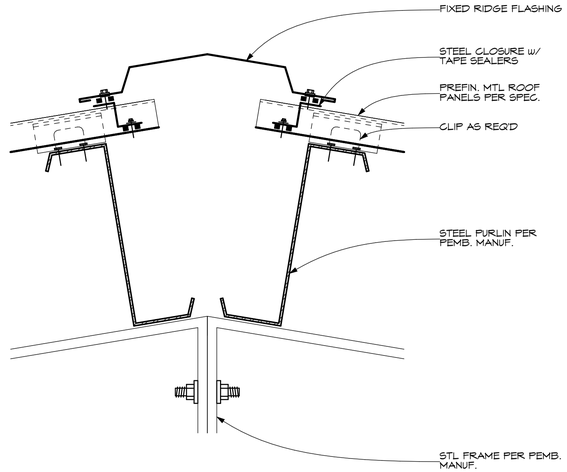
4 A305 **ROOF PENETRATION DETAIL**
SCALE: 3" = 1'-0"



3 A305 **EAVE DETAIL**
SCALE: 3" = 1'-0"



2 A305 **EAVE DETAIL**
SCALE: 3" = 1'-0"



1 A305 **RIDGE DETAIL**
SCALE: 3" = 1'-0"

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ROOF DETAILS

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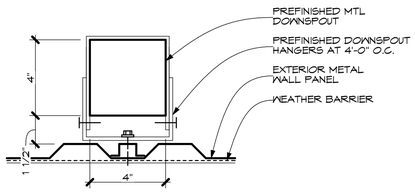
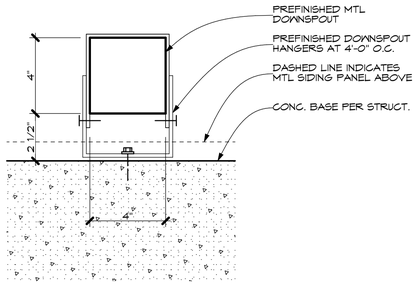
SHEET
A305

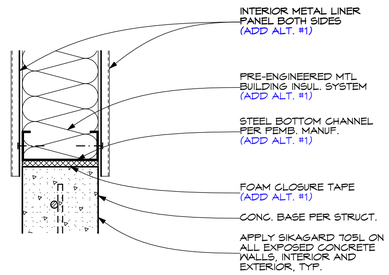


AT MTL WALL PANELS - PLAN

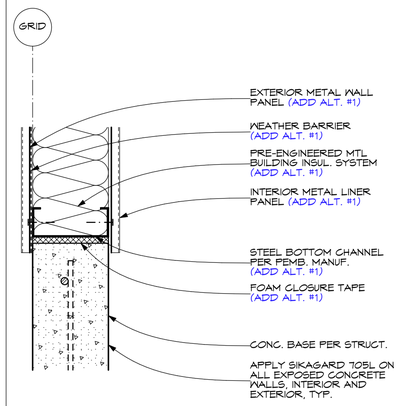


AT CONC WALL - PLAN

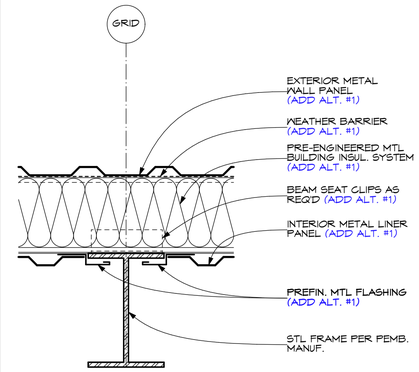
8 A306 **DOWNSPOUT DETAIL**
SCALE: 3" = 1'-0"



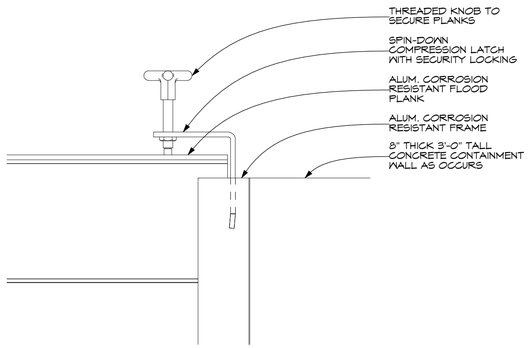
7 A306 **WALL DETAIL**
SCALE: 1 1/2"= 1'-0"



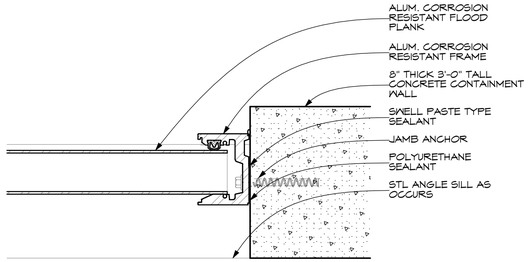
6 A306 **WALL DETAIL**
SCALE: 1 1/2"= 1'-0"



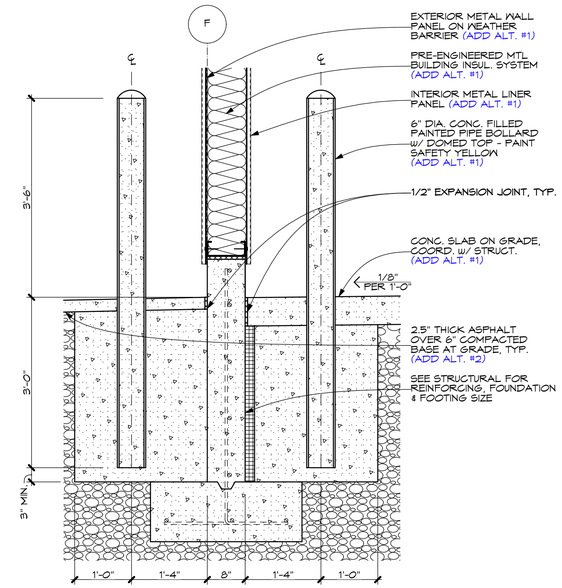
5 A306 **WALL DETAIL**
SCALE: 1 1/2"= 1'-0"



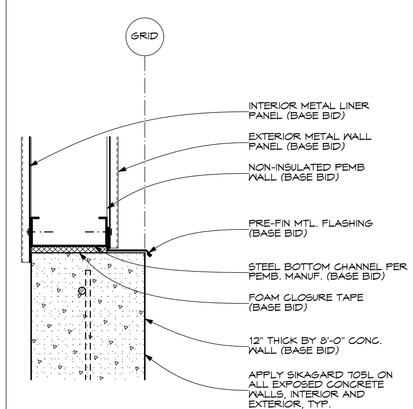
FRONT VIEW



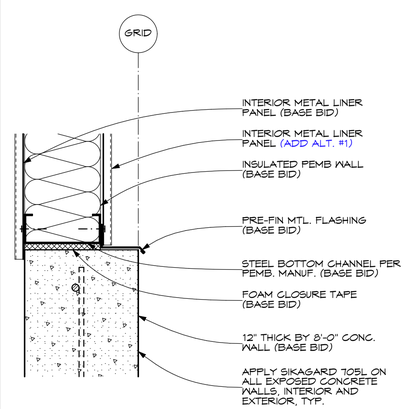
HORIZONTAL SECTION



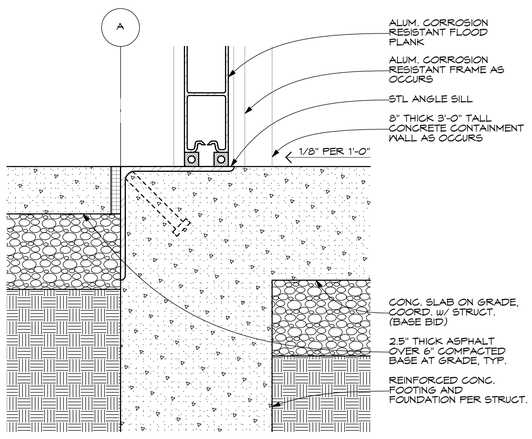
4 A306 **BOLLARD DETAIL**
SCALE: 3/4" = 1'-0"



3 A306 **WALL DETAIL**
SCALE: 1 1/2"= 1'-0"



2 A306 **WALL DETAIL**
SCALE: 1 1/2"= 1'-0"



VERTICAL SECTION

1 A306 **FLOOD PANEL DETAILS**
SCALE: 3" = 1'-0"

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BLISS, IDAHO

SHEET TITLE:
DETAILS

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JOB NUMBER: 22566
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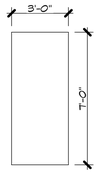
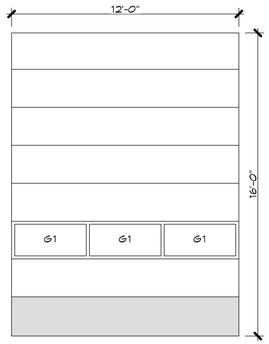
SHEET **A306**

DOOR TYPES



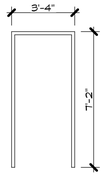
1

OVERHEAD DOOR TYPES



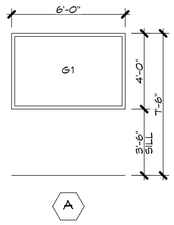
OH1

FRAME TYPES



A

WINDOW TYPES



A

LEGEND

HINGES

H1	TA 2714 4 1/2 x 4 1/2	MCKINNEY
H2	TA 2714 4 1/2 x 4 1/2 NRP	MCKINNEY

LOCKS

L1: ENTRANCE	93K7AB 15D 626	BEST
L2: PASSAGE	93KON 15D 626	BEST
L3: STORAGE	93K7D 15D 626	BEST
L4: OFFICE/CLASS	93K7E 15D 626	BEST
L6: CYLINDER	E SERIES	BEST
L6: PRIVACY	93K7L 15D 626	BEST

CLOSER

C1	COMMERCIAL GRADE 750	NORTON

KICKPLATES

K1	V1994	STANLEY

STOPS

S1	CD80-4011	WALL	STANLEY
S2	SP9202	FLOOR	STANLEY

WEATHER STRIPPING

WS1	303CPK	PEMKO

SMOKE SEALS

SS1	303CPK	PEMKO

DOOR SWEEP

DS1	18062CP	PEMKO

THRESHOLD

T1	172A	PEMKO

EXIT DEVICE

ED1	99L	VON DUPRIN

PUSH/PULLS

P1	8303-8 PULL	IVES
P2	8200-8 PUSH	IVES

NOTES:

1. HARDWARE BY DOOR SUPPLIER w/ FULL SHOP DWG REVIEW FOR APPROVAL.
2. LOCKING MECHANISM w/ EXT. KEY PAD, POWERED DOOR. GLAZING BY DOOR MANUF.
3. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED. REFER TO FINISH SCHEDULE.
4. PROVIDE AUTOMATIC DOOR OPERATOR, COORDINATE w/ MTL. BLDG. MANUF. & ELEC. DRAWGS.
6. PROVIDE COMPLETE WEATHERSTRIPPING AROUND OVERHEAD DOOR.

DOOR SCHEDULE (ADD ALT #1)

DOOR NUMBER	SINGLE / PAIR	SIZE WID.	SIZE HGT.	SIZE THK.	DOOR MAT.	DOOR TYPE	FRAME MAT.	FRAME WID.	FRAME TYPE	LABEL	HINGES	LOCK TYPE	GLAZING	KEYING	CLOSERS	PUSH	PULL	KICKPLATES	STOPS	WEATHERSTRIP	SMOKE SEAL	DOOR SWEEP	THRESHOLD	EXIT DEVICE	REMARKS	DETAIL	DOOR NUMBER
101A	S	3'-0"	7'-0"	1 3/4"	H.M.	1	H.M.	7 5/8"	A	---	H2	L1	---	---	C1	---	---	K1	---	WS1	---	DS1	T1	---	NOTE #1, 3	1/A401	101A
102A	S	3'-0"	7'-0"	1 3/4"	H.M.	1	H.M.	7 5/8"	A	---	H2	L1	---	---	C1	---	---	K1	---	WS1	---	DS1	T1	---	NOTE #1, 3	1/A401	102A
102B	S	3'-0"	7'-0"	1 3/4"	H.M.	1	H.M.	7 5/8"	A	---	H2	L1	---	---	C1	---	---	K1	---	WS1	---	DS1	T1	---	NOTE #1, 3	1/A401 SIM.	102B

OVERHEAD DOOR SCHEDULE (ADD ALT #1)

DOOR NUMBER	SINGLE / PAIR	SIZE WID.	SIZE HGT.	SIZE THK.	DOOR MAT.	DOOR TYPE	FRAME MAT.	FRAME TRACK	LABEL	HINGES	LOCK TYPE	GLAZING	KEYING	CLOSERS	PUSH	PULL	KICKPLATES	STOPS	WEATHERSTRIP	SMOKE SEAL	DOOR SWEEP	THRESHOLD	EXIT DEVICE	REMARKS	DETAIL	DOOR NUMBER
101B	S	12'-0"	16'-0"	2"	MTL	OH1	MTL	3"	---	---	---	G1	---	---	---	---	---	---	---	---	---	---	---	NOTE #2, 4 & 6	2/A401	101B

GLAZING

GLAZING

G1	1" INSULATED, GLASS - TEMPERED

WINDOW SCHEDULE (ADD ALT #1)

WINDOW NUMBER	SIZE WID.	SIZE HTG.	WINDOW TYPE	GLAZING	WINDOW FRAME	OPERATION	WINDOW COVERING	REMARKS	DETAIL	WINDOW NUMBER
100	6'-0"	4'-0"	A	G1	ALUM	FIXED	---	---	3/A401 SIM.	100
101	6'-0"	4'-0"	A	G1	ALUM	FIXED	---	---	3/A401	101

1 / A400 DOOR AND WINDOW TYPES & SCHEDULES

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REGISTERED PROFESSIONAL ARCHITECT
AR 987379
MATTHEW FRANKEL
STATE OF IDAHO
2023

AIA NCARB ASID

PROJECT:
ITD D4 BLISS YARD
SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

DOOR AND WINDOW SCHEDULES

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

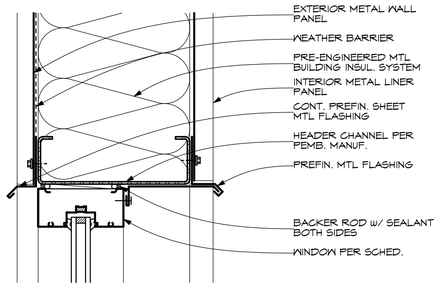
DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

JOB NUMBER: 22566

PROJECT DATE: March 2023

SHEET
A400



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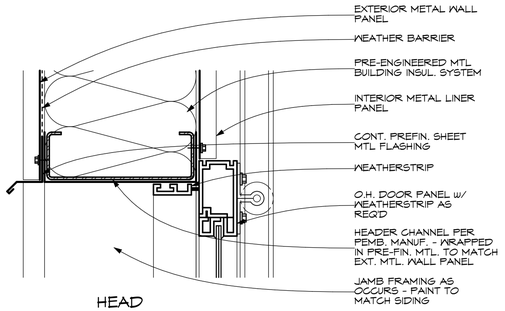

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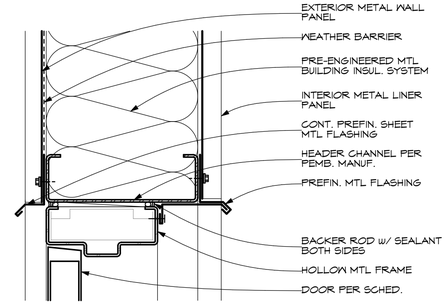

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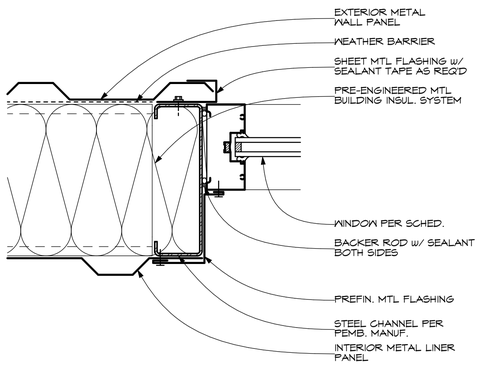

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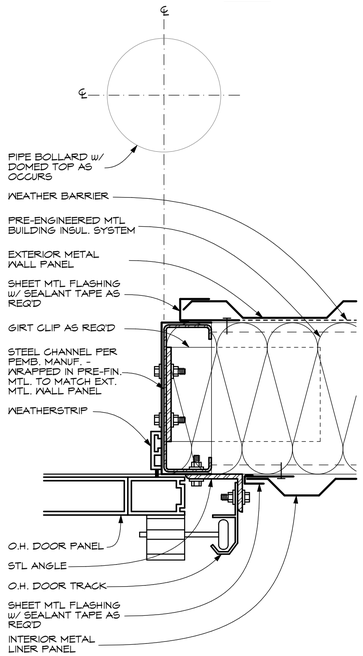

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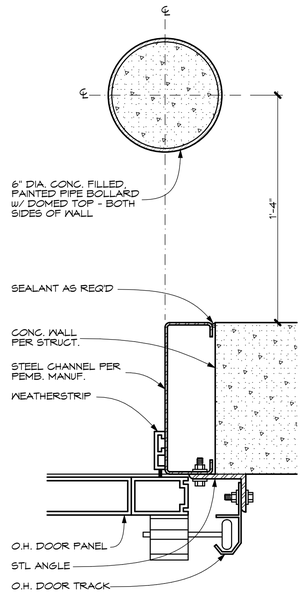

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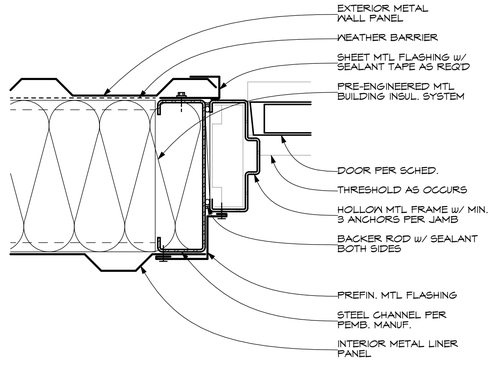

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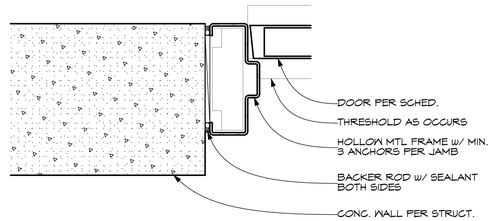

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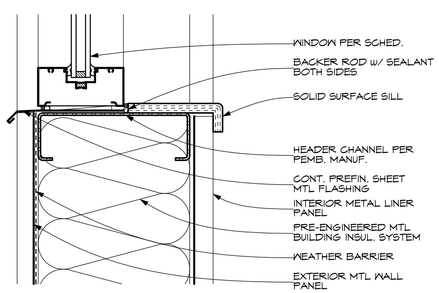

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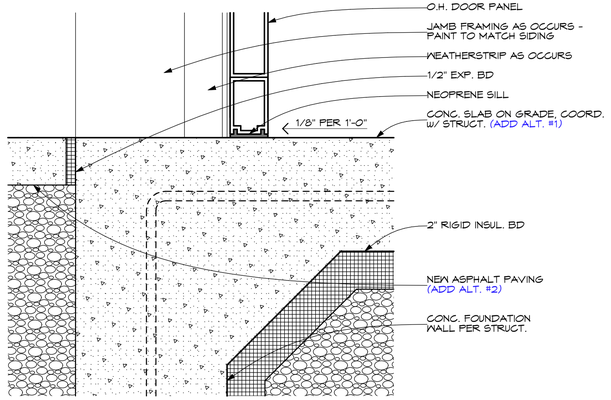

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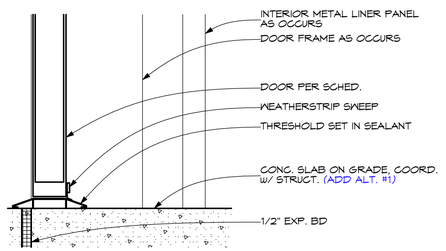

SILL

3 / A401 WINDOW DETAIL (ADD ALT. #1)
SCALE: 3" = 1'-0"

2 / A401 O.H. DOOR DETAIL (ADD ALT. #1)
SCALE: 3" = 1'-0"

1 / A401 MAN-DOOR DETAIL (ADD ALT. #1)
SCALE: 3" = 1'-0"

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SHEET
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FINISHES

FLOOR

F1 CONCRETE

WALLS

W1 LINER PANEL
W2 VERTICAL RIB METAL SIDING PANEL

CEILINGS

C1 LINER PANEL

COLORS

FLOOR

CON-1 TROWELED CONCRETE, (2) COATS CLEAR SEALER

NOTES

1. ALL PEMB STRUCTURAL STEEL, PURLINS AND WALL CHANNELS TO BE SHOP PRIMED. TOUCH UP IN FIELD WHERE DAMAGED DURING ERECTION
2. PAINT ALL HOLLOW METAL DOORS AND FRAMES PER SPECIFICATIONS. COLOR TO BE SELECTED BY ARCHITECT
3. PAINT ALL BOLLARDS SAFETY YELLOW
4. PAINT BOTTOM PANELS OF ALL OVERHEAD DOORS SAFETY YELLOW
5. NEW CONC. SLABS, ALL FACES OF EXPOSED STEM WALLS, AND CONCRETE COLUMN PIERS TO RECEIVE SIKASARD 705L CONCRETE SEALER. COORD. w/ MANUF. FOR PREP. AND APPLICATION CONDITIONS.

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	COLOR #	BASE FINISH	COLOR #	WALLS								TRIM	CEILING			REMARKS	ROOM NUMBER
						EAST		SOUTH		WEST		NORTH							
						FINISH	COLOR #	FINISH	COLOR #	FINISH	COLOR #	FINISH	COLOR #		FINISH	COLOR #	HEIGHT		
100	SALT SHED	F1	CON-1	---	---	W2	---	---	---	W2	---	---	---	---	C1	---	VARIES		100
101	BRINE PRODUCTION	F1	CON-1	---	---	W1	---	W1	---	W1	---	W1	---	---	C1	---	VARIES	COORD. W/ ADD ALT #1	101
102	BRINE PRODUCTION OBSERVATION	F1	CON-1	---	---	W1	---	W1	---	W1	---	W1	---	---	C1	---	VARIES	COORD. W/ ADD ALT #1	102
103	BRINE STORAGE	F1	CON-1	---	---	---	---	---	---	W2	---	W2	---	---	C1	---	VARIES		103
104	COVERED LOADER STORAGE	F1	CON-1	---	---	W2	---	---	---	---	---	---	---	---	C1	---	VARIES		104

1 A500 FINISH SCHEDULE

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SHEET A500

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

GENERAL REQUIREMENTS:

1. THE STRUCTURAL SYSTEMS AND MEMBERS DEPICTED HEREIN HAVE BEEN DESIGNED PRIMARILY TO SAFEGUARD AGAINST MAJOR STRUCTURAL DAMAGE AND LOSS OF LIFE, NOT TO LIMIT DAMAGE OR MAINTAIN FUNCTION (IBC SECTION 101.3).

2. THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEER'S IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS.

4. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.

5. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL ENGINEER.

6. ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT, SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

7. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS, THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECT. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER THE STRUCTURAL ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE APPROPRIATE STATE. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER ARE NOT TO BE CONSIDERED CHANGES TO ORIGINAL DRAWINGS. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ALLOW (5) WORKING DAYS FOR THE STRUCTURAL ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE STRUCTURAL ENGINEER'S RECORDS.

BASIS FOR DESIGN:

1. BUILDING CODE: 2018 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS.

   RISK CATEGORY = II

2. VERTICAL LOADS:

LOCATION	LIVE / SNOW LOAD	DEAD LOAD
ROOF	GROUND = 30 PSF ROOF = 30 PSF (MIN)	PER MANUFACTURER

3. DEFLECTION LIMITS:

ELEMENTS	LIVE LOAD	TOTAL LOAD
ROOF TRUSSES/JOISTS	L/240	L/180

4. SEISMIC DESIGN PARAMETERS:

ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
IMPORTANCE FACTOR	Ie = 1.00
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATIONS	$S_1 = 0.095$, $S_S = 0.250$

5. WIND DESIGN PARAMETERS (STRENGTH):

ULTIMATE WIND SPEED	105 MPH (3 SECOND GUST)
WIND EXPOSURE	C
IMPORTANCE FACTOR	Iw = 1.00

FOUNDATION NOTES:

1. IN LIEU OF A GEOTECHNICAL REPORT: THE FOUNDATION HAS BEEN DESIGNED ACCORDING TO THE RECOMMENDATIONS OF CHAPTER 18 OF THE IBC.

2. THE SOIL DESIGN VALUES LISTED BELOW HAVE BEEN APPROVED BY THE CITY/COUNTY BUILDING DEPARTMENT, CONTINGENT THAT THE SOIL ON THE SITE PREDOMINATELY CONSISTS OF SAND AND/OR GRAVEL.

   SPECIFIC SOIL CLASSIFICATIONS SHOULD BE ONE OF THE FOLLOWING: SANDY GRAVEL OR GRAVEL(GW OR GP), SAND(SW AND SP), SILTY SAND(SM), CLAYEY SAND(SC), SILTY GRAVEL(GM), OR CLAYEY GRAVEL(GC). THESE SOIL CLASSIFICATIONS CAN BE FOUND IN TABLE 1806.2 OF CHAPTER 18 OF THE IBC.

   VERIFICATION OF SOIL CLASSIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR.

THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

ALLOWABLE BEARING PRESSURE	1500 PSF
ALLOWABLE LATERAL BEARING PRESSURE	150 PSF/FT
ALLOWABLE LATERAL SLIDING COEFFICIENT	0.25

3. A ONE-THIRD INCREASE IN BEARING PRESSURES IS ALLOWED WITH SEISMIC OR WIND LOAD COMBINATIONS. LATERAL BEARING AND LATERAL SLIDING RESISTANCE MAY BE COMBINED.

FOUNDATION BEARING DEPTH
30" BELOW FINISHED GRADE

4. ALL FOUNDATIONS SHALL BEAR ON COMPACTED ENGINEERED FILL OR COMPETENT NATIVE SOIL SUBBASE COMPACTED TO 95% DRY DENSITY (STANDARD PROCTOR). GRADE IS DEFINED AS LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.

5. CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 4 INCH (MIN) LAYER OF FREE-DRAINING GRANULAR MAT (DRAINAGE FILL COURSE). THE MAT SHOULD CONSIST OF A WELL GRADED SAND AND GRAVEL MIXTURE WITH MAXIMUM 3/4-INCH CRUSHED AGGREGATE. THE GRANULAR MAT SHOULD BE COMPACTED TO NO LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557

6. BACKFILL AGAINST RESTRAINED WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS AND CONCRETE OR GROUT STRENGTH HAS REACHED THE 28 DAY STRENGTH LISTED BELOW.

REINFORCING STEEL:

1. ASTM A615 GRADE 60 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS #4 AND LARGER. ASTM A615 GRADE 40 (FY = 40 KSI) DEFORMED BARS FOR ALL BARS #3 AND SMALLER. GRADE 60 DEFORMED BARS SHALL BE USED FOR CONCRETE WALLS, BEAMS, ELEVATED SLABS AND COLUMN REINFORCING.

2. ASTM A775 GRADE 60 (FY = 60 KSI) EPOXY COATED DEFORMED BARS FOR ALL BAR SIZES.

3. WELDING OF REINFORCING BARS SHALL BE MADE ONLY TO ASTM A706 GRADE 60 BARS AND ONLY USING E90 SERIES RODS. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.

4. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

CONCRETE:

1. MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

USE:	CONCRETE STRENGTH:	MAX W/C RATIO	AIR ENTRAINMENT
FOOTINGS	4000 PSI	0.50	5.5% ± 1%
CONCRETE WALLS	5000 PSI	0.45	5.5% ± 1%
CONCRETE SLABS ON GRADE	5000 PSI	0.40	5.5% ± 1%

2. ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER CUBIC FOOT USING HARD-ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33.

3. LAP SPLICES FOR BEAMS AND FLOOR SLABS SLABS SHALL BE ACCORDING TO CHAPTER 12 OF ACI 318 OR LAP SCHEDULE ON THESE DRAWINGS.

   STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES.

4. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

LOCATION:	MINIMUM COVER	TOLERANCE
CAST AGAINST EARTH (FOOTINGS)	3"	± 3/8"
SLABS ON GRADE	1½"	± 1/4"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER	1½"	± 3/8"
EXPOSED TO EARTH OR WEATHER - #6 AND LARGER	2"	± 3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND ROOF SLAB	1"	1/8"
STRUCTURAL SLABS AND WALLS	3/4"	1/8"
BEAMS AND COLUMNS (PRIMARY) REINFORCEMENT, TIES, STIRRUPS AND SPIRALS	1½"	3/8"

5. MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.

6. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.

7. CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

   ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.

8. ALL CONCRETE SLABS ON GRADE SHALL BE DIVIDED INTO AREAS BY CONTROL JOINTS (KEYED OR SAW CUT) SUCH THAT ONE SLAB AREA DOES NOT EXCEED A MAXIMUM LENGTH OF 24 TIMES THE SLAB THICKNESS IN BOTH DIRECTIONS (EXAMPLE: 4" SLAB = 8'-0" LENGTH). SQUARE LAYOUTS ARE PREFERRED, BUT THE SLAB GEOMETRY MAY DICTATE OTHERWISE. THE RATIO OF THE LONG TO SHORT DISTANCE SHALL NOT EXCEED 1.3. IT IS RECOMMENDED THAT SAW CUTS BE MADE WITHIN 16 HOURS OF CONCRETE BATCHING.

   KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.

9. HORIZONTAL PIPES AND ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE AND SLABS ON GRADE EXCEPT WHERE SPECIFICALLY APPROVED OR NOTED BY THE STRUCTURAL ENGINEER. PIPES AND CONDUITS SHALL NOT IMPAIR THE STRENGTH OF THE WORK.

10. FLY ASH MAY BE USED ONLY IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS AND SHALL BE LIMITED TO 18 PERCENT OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

11. COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.

12. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.

13. LIMIT ALKALI-SILICA REACTION (ASR) TO 0.1% EXPANSION AT 28 DAYS IN CONCRETE MIX AT ALL EXTERIOR CONCRETE AND INTERIOR CONCRETE EXPOSED TO MOISTURE.

SPECIAL INSPECTION ITEMS:

1. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK SPECIFIED PER IBC SECTION 1705 AND IDENTIFY THE APPROVED AGENCIES TO THE BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE REQUIRED AS FOLLOWS:

CONCRETE (IBC TABLE 1705.3)

VERIFICATION AND INSPECTION	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	-	X
2. REINFORCING BAR WELDING:		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706;	-	X
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" ; AND		X
C. INSPECT ALL OTHER WELDS.	X	
3. INSPECT ANCHORS CAST IN CONCRETE	-	X
4. INSPECT ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS.		
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.		X
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X
9. INSPECT PRESTRESSED CONCRETE FOR:		
A. APPLICATION OF PRESTRESSING FORCES; AND	X	-
B. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X
11. FOR PRECAST DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:		
A. INSTALLATION OF THE EMBEDDED PARTS.	X	-
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT.	X	-
C. COMPLETION OF CONNECTIONS IN THE FIELD.	X	-
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	-	X
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X

SOILS (IBC TABLE 1705.6) (W/O GEOTECH REPORT)

VERIFICATION AND INSPECTION	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D 1557.	-	X
2. VERIFY THAT THE COMPACTED FILL ALLOWABLE BEARING PRESSURE IS NOT LESS THAN 1500 PSF.	-	X

2. QUALITY ASSURANCE PROGRAM:

   A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

   B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE STRUCTURAL ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.

ABBREVIATIONS

A.B.C.	AGGREGATE BASE COURSE	HORIZ	HORIZONTAL
A/C	AIR CONDITIONER	K(KIP)	1000 POUNDS
A.F.F.	ABOVE FINISHED FLOOR	L L	LIVE LOAD
ALT	ALTERNATE	LBS (#)	POUNDS
A.B.	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
@	AT (MEASUREMENT)	LLV	LONG LEG VERTICAL
BM	BEAM	MIN	MINIMUM
B.F.F	BELOW FINISHED FLOOR	MAX	MAXIMUM
B.O.B.	BOTTOM OF BEAM	MFR('S)	MANUFACTURER('S)
B.O.D.	BOTTOM OF DECK	M.C.J.	MASONRY CONTROL JOINT
B.O.F.	BOTTOM OF FOOTING	MECH	MECHANICAL
BRG	BEARING	N/A	NOT APPLICABLE
C.C.	CONCRETE COLUMN	N.T.S.	NOT TO SCALE
C.I.P.	CAST IN PLACE	O.C.	ON CENTER
C L	CENTERLINE	O.F.W.	OUTSIDE FACE OF WALL
C.L.B.	CENTERLINE OF BEAM	OPP	OPPOSITE
C.L.C.	CENTERLINE OF COLUMN	P.C.	PRECAST CONCRETE
C.L.F.	CENTERLINE OF FOOTING	PLF	POUNDS PER LINEAR FOOT
C.L.W.	CENTERLINE OF WALL	PREFAB	PREFABRICATED
CLR	CLEAR	PFT	PREFAB FLOOR TRUSSES
CONC	CONCRETE	PRT	PREFAB ROOF TRUSSES
C.C.J.	CONCRETE CONTROL JOINT	PSF	POUNDS PER SQUARE FOOT
C.S.J.	CONCRETE SAWCUT JOINT	PSI	POUNDS PER SQUARE INCH
C.M.U.	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
CONN.	CONNECTION	REINF	REINFORCING
CONT	CONTINUOUS	RME	ROOF MOUNTED EQUIPMENT
D L	DEAD LOAD	SLH	SHORT LEG HORIZONTAL
Ø OR DIA.	DIAMETER	SLV	SHORT LEG VERTICAL
DN.	DOWN	SIM	SIMILAR
DWG(S)	DRAWING(S)	SQ	SQUARE
E.O.S.	EDGE OF SLAB	STD	STANDARD
EQ	EQUAL	T L	TOTAL LOAD
EQUIP	EQUIPMENT	T.O.B.	TOP OF BEAM
EXP. BOLT	EXPANSION BOLT	T.O.D.	TOP OF DECK
EXP. JT (E.J.)	EXPANSION JOINT	T.O.F.	TOP OF FOOTING
(E)	EXISTING	T.O.L.	TOP OF LEDGER
E.W.	EACH WAY	T.O.M.	TOP OF MASONRY
F.F.	FINISHED FLOOR	T.O.P.	TOP OF PLATE
F.O.M.	FACE OF MEMBER	T.O.S.	TOP OF STEEL
F.O.S.	FACE OF STEEL	T.O.W.	TOP OF WALL
F.O.W.	FACE OF WALL	TYP	TYPICAL
GA	GAUGE	U.N.O.	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	VERT	VERTICAL
GSN	GENERAL STRUCTURAL NOTES	W.W.F.	WELDED WIRE FABRIC
GLB	GLUED-LAMINATED BEAM	W/	WITH
GT	GIRDER TRUSS	W/O	WITHOUT
I.F.W.	INSIDE FACE OF WALL		

SHEET INDEX

SHEET	DESCRIPTION	DETAILS
S1.0	GENERAL STRUCTURAL NOTES	---
S1.1	TYPICAL DETAILS	T-SERIES
S2.0	FOUNDATION PLAN	---
S3.0	FOUNDATION DETAILS	100 - SERIES

THESE DRAWINGS ARE FOR BID AND APPROVAL ONLY AND ARE NOT FOR CONSTRUCTION. THE FOUNDATION WILL NEED TO BE APPROPRIATELY DESIGNED FOR THE FINAL STEEL BUILDING COLUMN REACTIONS.

JOB NO.: IF23-002 | PROJECT MANAGER: DBP | CAD OPERATOR: RMS

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AIA NCARB ASLA

PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER
2/13/23

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:
GENERAL STRUCTURAL NOTES

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE
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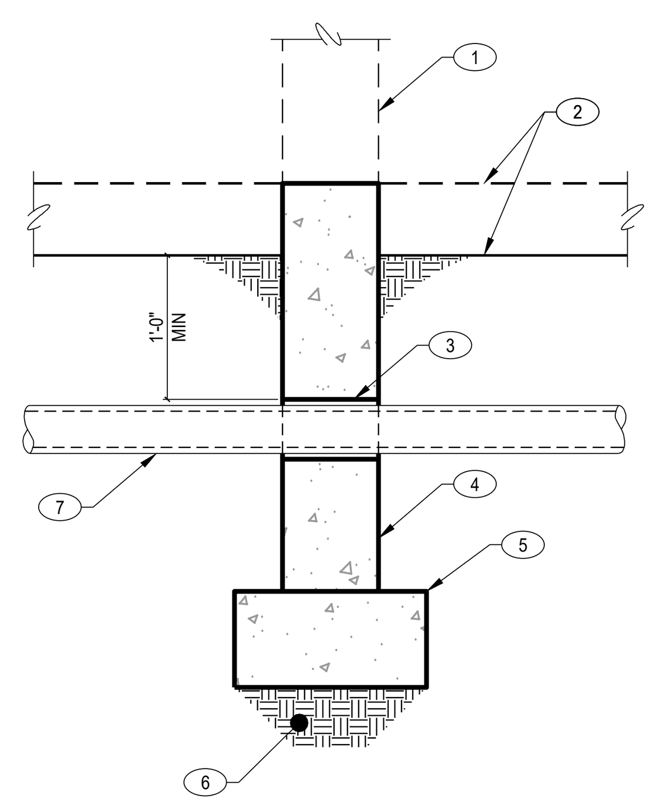
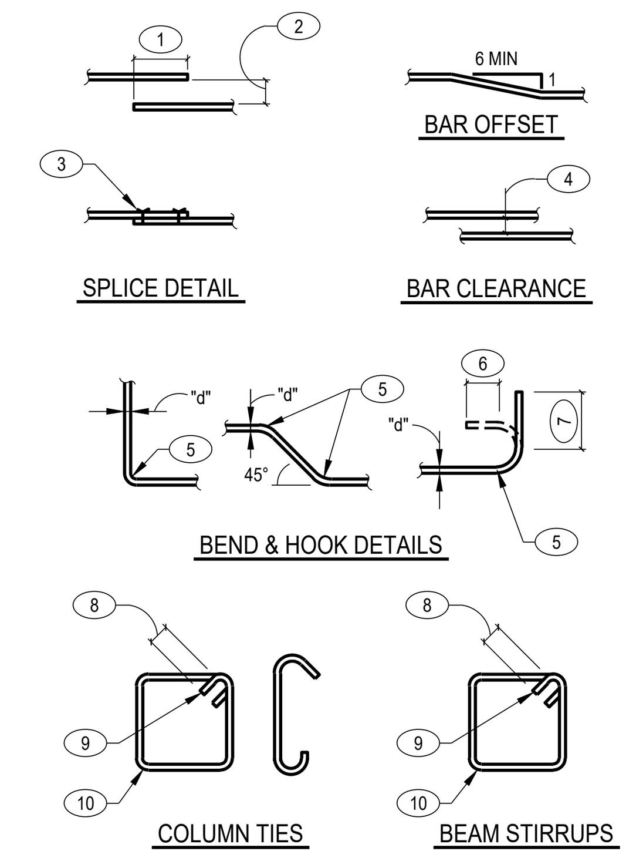
DRAWN BY: DB
CHECKED BY: CB
JOB NUMBER: CLJOBNUM
PROJECT DATE: 2/13/2023
SHEET S1.0 OF



KEYNOTES:
1. WALL AS OCCURS, SEE PLAN
2. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
3. SLEEVE, 8"Ø MAX, PROVIDE ½" MINIMUM CLEARANCE AROUND PIPE-CONDUIT
4. CONCRETE WALL, SEE PLAN
5. CONCRETE FOOTING, SEE PLAN
6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7. PIPE OR CONDUIT

NOTE:
A. NO PIPE SHALL PASS THROUGH FOOTINGS OR UNDER COLUMN FOOTINGS. FOR ADDITIONAL INFORMATION SEE PLANS AND DETAILS
B. MULTIPLE PIPES/CONDUIT SLEEVES ALLOWED PROVIDED SLEEVES ARE SPACED W/ MINIMUM OF 2x SLEEVE DIAMETER BETWEEN SLEEVES
C. SLEEVES SHALL NOT OCCUR WITHIN 12" OF POINT LOADS OR HOLDOWN ANCHORS

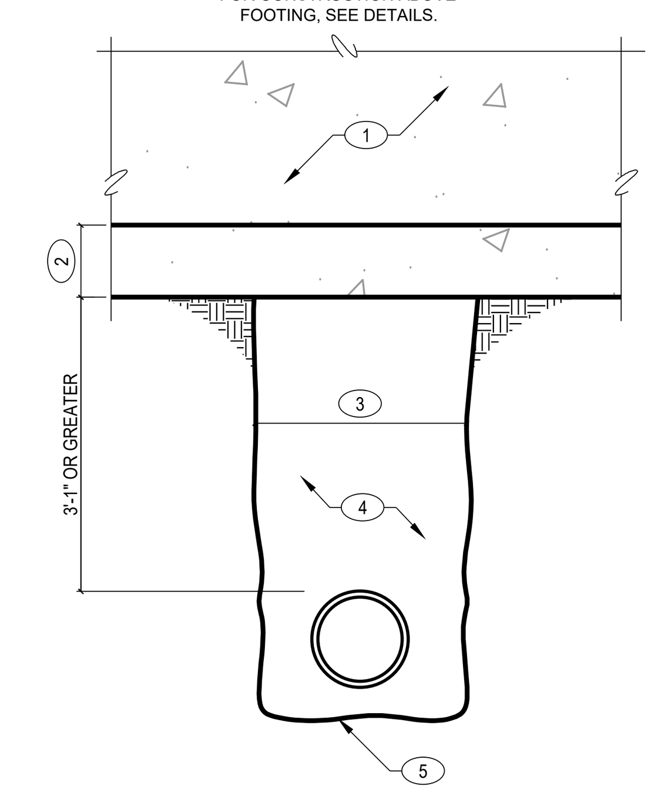
T9 TYPICAL PIPE THROUGH STEM WALL
TD61 — NO SCALE



KEYNOTES:
1. LAP - SEE G.S.N.
2. MAXIMUM ⅕ LAP BUT NOT MORE THAN 6"
3. WIRE TIES
4. 1d (1" MINIMUM)
5. RADIUS = 3d FOR BARS NOT OVER #8; 4d FOR #9, #10, AND #1 BARS; 5d FOR #14 AND #18 BARS, 5d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK
6. 4D (4" MINIMUM)
7. 12d (90 DEGREE HOOK)
8. 6d (4" MINIMUM)
9. 135 DEGREE BEND
10. BEND AROUND 1½" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND AROUND 2½" PIN FOR #5 BARS.

T6 TYPICAL REINFORCING DETAILS
TD10 — NO SCALE

FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS.

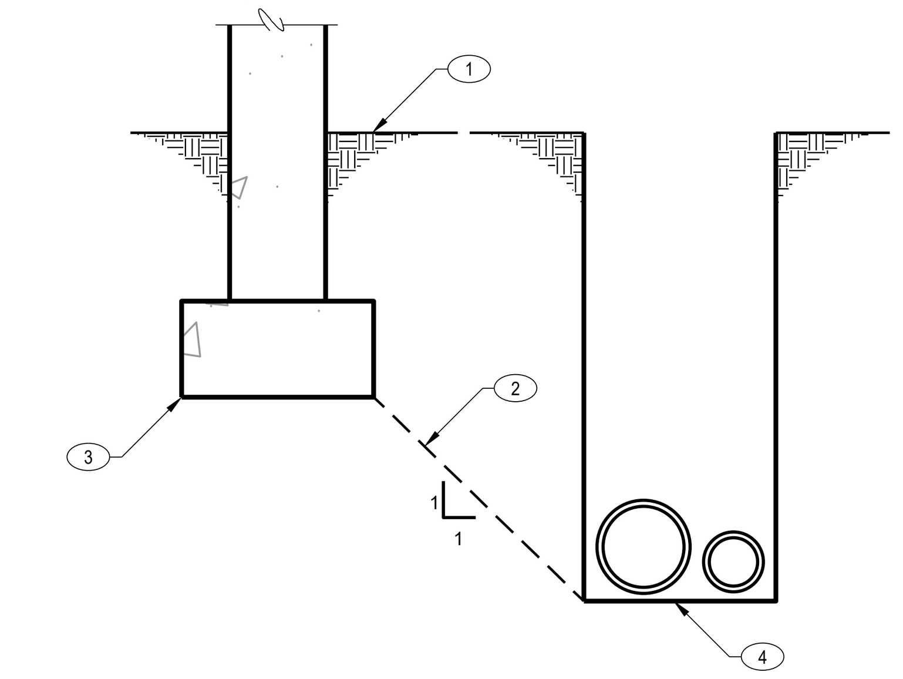


KEYNOTES:
1. STEM WALL
2. CONCRETE FOOTING
3. 1'-6" MAXIMUM - WHERE TRENCH EXCEEDS 1'-6" NOTIFY STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF FOOTINGS
4. BACKFILL AND RECOMPACT TRENCH PER SOILS REPORT AND SPECIFICATIONS
5. BOTTOM OF TRENCH

NOTE:
A. DO NOT UNDERCUT EXISTING FOOTINGS
B. NO PIPES OR OTHER UTILITIES SHALL PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS

T3 PIPE PASSING BELOW FOOTING IN DEEP TRENCH
TD03 — NO SCALE

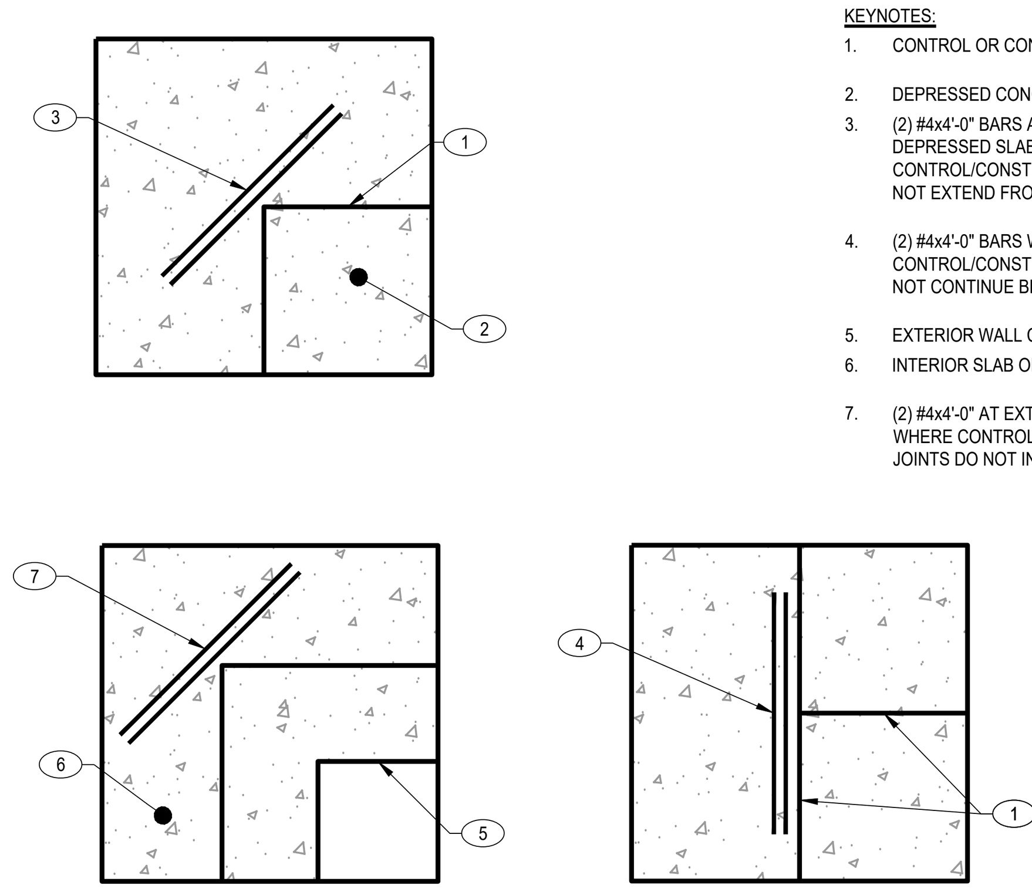
FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS.



KEYNOTES:
1. FINISHED GRADE WHERE OCCURS
2. DO NOT EXCAVATE A TRENCH CLOSER THAN A 45 DEGREE ANGLE TO BELOW BOTTOM FOOTING OR FOUNDATION
3. BOTTOM OF CONCRETE FOOTING
4. BOTTOM OF TRENCH

NOTE:
A. DO NOT UNDERCUT EXISTING FOOTINGS
B. NO PIPE OR OTHER UTILITIES SHALL PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS

T1 TRENCH PARALLEL TO CONTINUOUS STRAP FOOTING
TD01 — NO SCALE



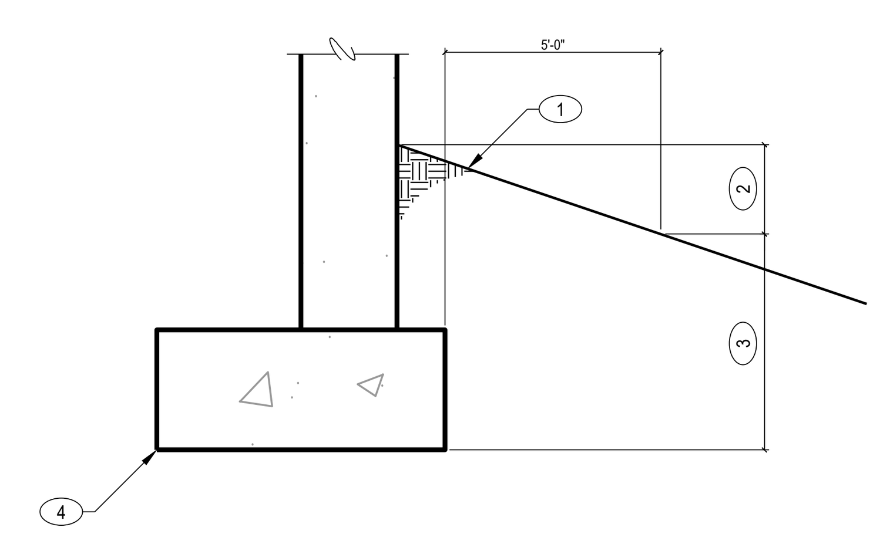
KEYNOTES:
1. CONTROL OR CONSTRUCTION JOINT
2. DEPRESSED CONCRETE SLAB
3. (2) #4x4'-0" BARS AT EACH CORNER OF DEPRESSED SLAB WHERE CONTROL/CONSTRUCTION JOINTS DO NOT EXTEND FROM CORNER
4. (2) #4x4'-0" BARS WHERE CONTROL/CONSTRUCTION JOINTS DO NOT CONTINUE BEYOND INTERSECTION
5. EXTERIOR WALL CORNER
6. INTERIOR SLAB ON GRADE, SEE PLAN
7. (2) #4x4'-0" AT EXTERIOR WALL CORNER WHERE CONTROL/CONSTRUCTION JOINTS DO NOT INTERSECT CORNER

T10 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCEMENT (PLAN VIEW)
TD82 — NO SCALE

BAR SIZE	CLASS B TENSION SPLICE LENGTHS					
	f'c = 3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI	
	HOIRZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HOIRZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HOIRZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS
#3	12"	12"	12"	12"	12"	12"
#4	19"	15"	17"	13"	19"	15"
#5	29"	23"	26"	20"	30"	23"
#6	32"	25"	28"	21"	32"	25"
#7	54"	41"	47"	36"	54"	42"
#8	70"	54"	61"	47"	70"	54"
#9	89"	68"	77"	59"	89"	69"
#10	112"	87"	97"	75"	110"	85"

NOTES:
1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
2. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS AND WALLS SHALL BE CLASS "B" TENSION LAP SPLICES.

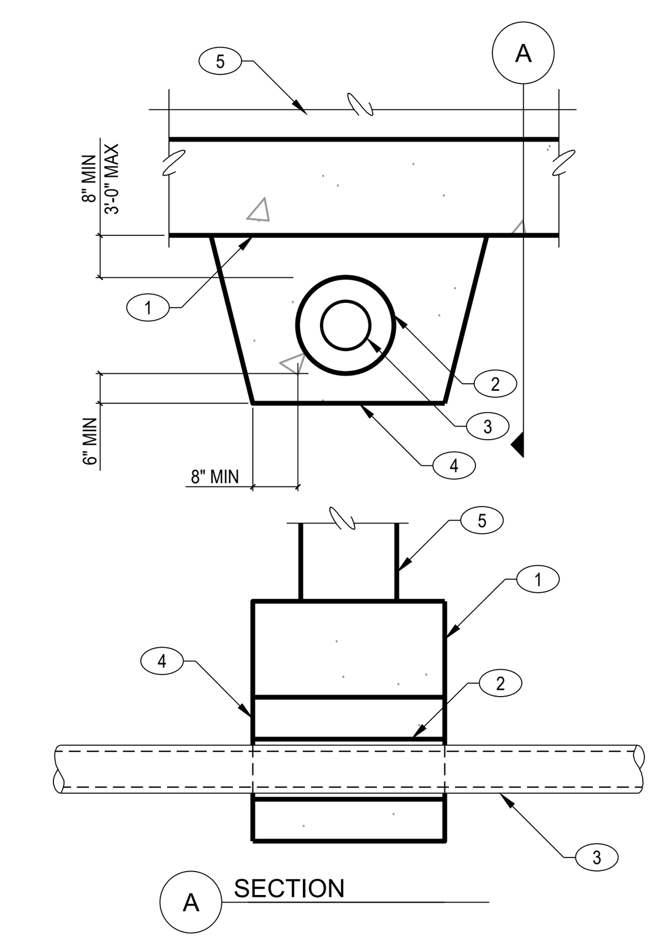
T7 STEEL REINFORCING LAP SPLICES IN CONCRETE
TD14 — NO SCALE



KEYNOTES:
1. SLOPED FINISH GRADE
2. MINIMUM FOOTING DEPTH PER G.S.N. - 12" MINIMUM
3. DEEPEN FOOTING AS REQUIRED TO ACCOUNT FOR SLOPED GRADE
4. CONCRETE FOOTING

NOTE:
A. FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS

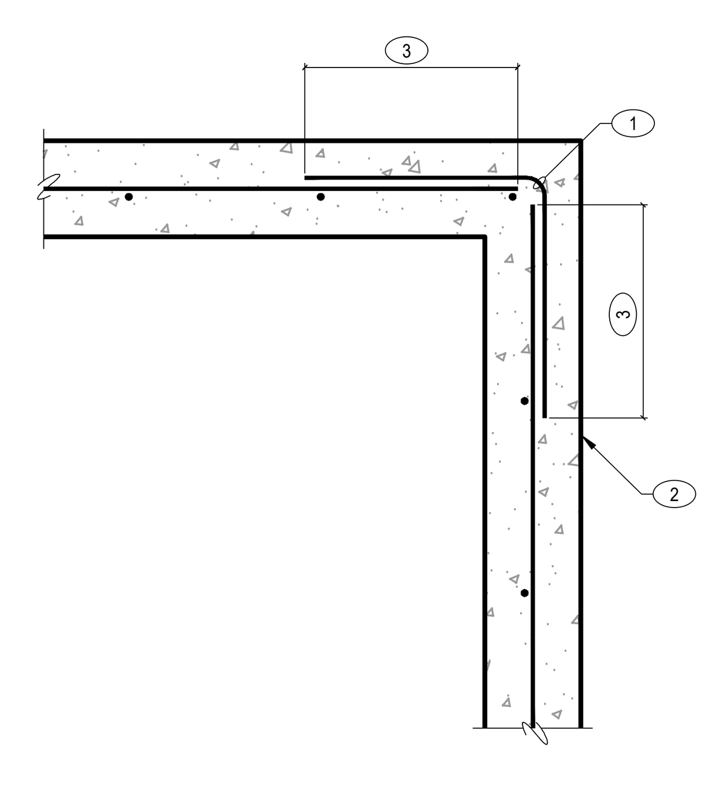
T4 TYPICAL DETAIL FOR FOUNDATION EMBEDMENT
TD04 — NO SCALE



KEYNOTES:
1. CONCRETE FOOTING
2. SLEEVE - PROVIDE ½" MINIMUM CLEARANCE AROUND PIPE OR CONDUIT
3. PIPE OR CONDUIT
4. CONCRETE FILL TO BE PLACED BEFORE FOOTING IS POURED - FORM SAME AS FOOTING AND POUR FULL WIDTH OF PIPE TRENCH
5. STEM WALL

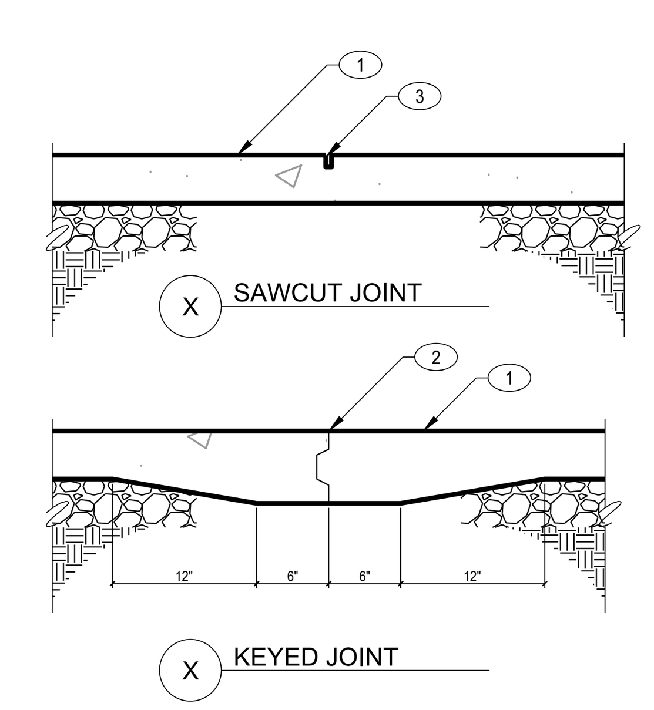
NOTE:
A. NO PIPE SHALL PASS THRU FOOTING OR UNDER COLUMN FOOTINGS. FOR TRENCHES GREATER THAN 3'-6" BELOW BOTTOM OF FOOTING, SEE PIPE PASSING BELOW WALL FOOTING DETAIL.

T2 PIPE PASSING UNDER WALL FOOTING IN SHALLOW TRENCH
TD02 — NO SCALE



KEYNOTES:
1. CORNER DOWELS TO MATCH HORIZONTAL REINFORCEMENT
2. CONCRETE WALL WITH REINFORCEMENT
3. LAP SPLICE PER TYPICAL STEEL REINFORCING LAP SPLICES IN CONCRETE DETAIL

T8 TYPICAL CONCRETE CORNER
TD05 — NO SCALE



KEYNOTES:
1. CONCRETE SLAB ON GRADE
2. CONT KEYED JOINT
3. SAWCUT ⅛" WIDE x ¼" SLAB THICKNESS IN DEPTH - CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING. WORK MUST BE COMPLETE WITHIN 16 HOURS OF CONCRETE PLACEMENT.

NOTE:
A. KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT UNLESS SPECIFICALLY NOTED ON THE PLANS.
B. "TOOL WET JOINT", "ZIP STRIP", ETC SHALL MATCH SAWCUT REQUIREMENTS

T5 CONTROL JOINTS IN CONCRETE SLAB ON GRADE
TD07 — NO SCALE

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PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER
2/13/23
AIA NCARB ASLA

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:
TYPICAL DETAILS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE
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DRAWN BY: DB
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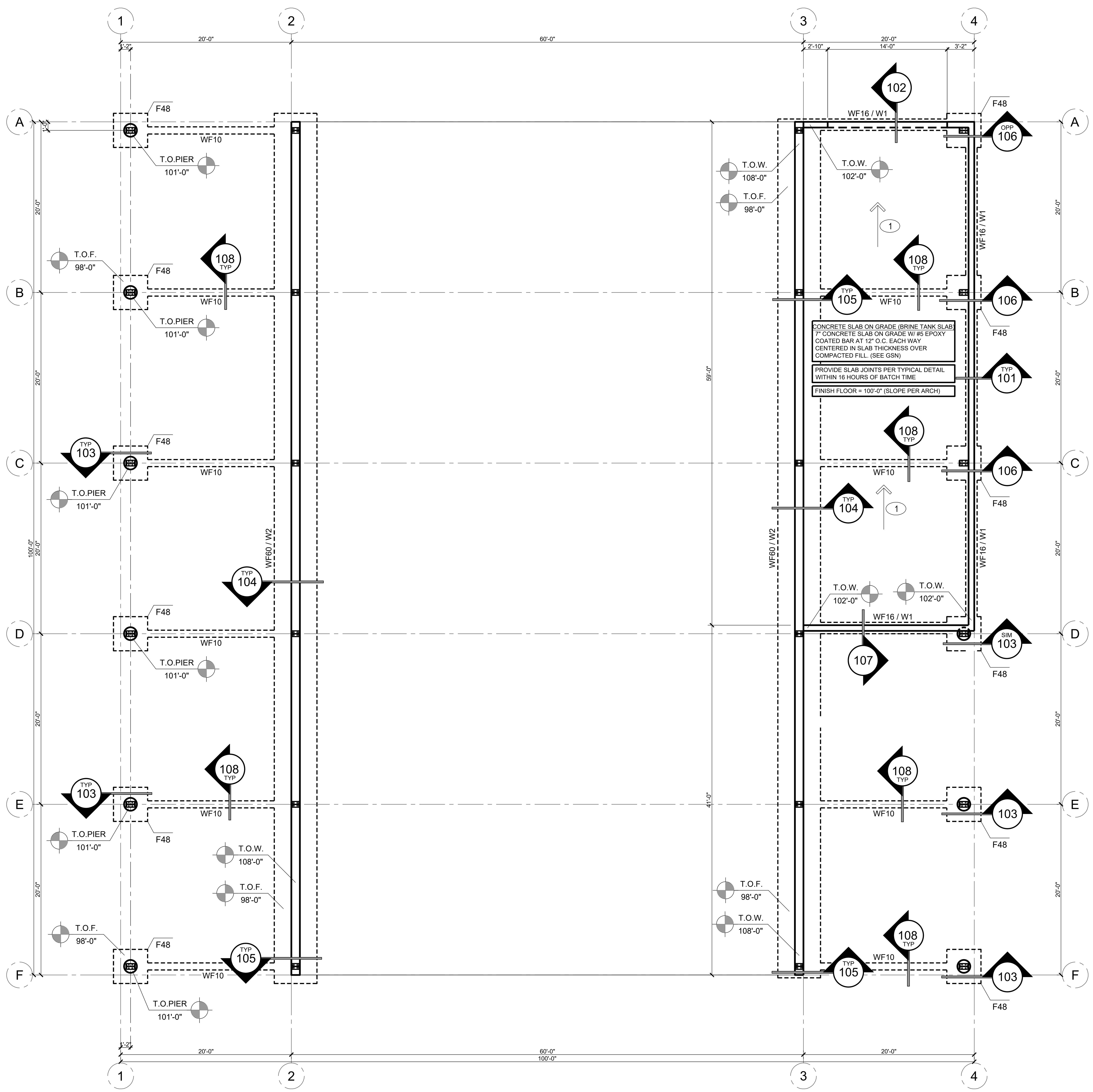
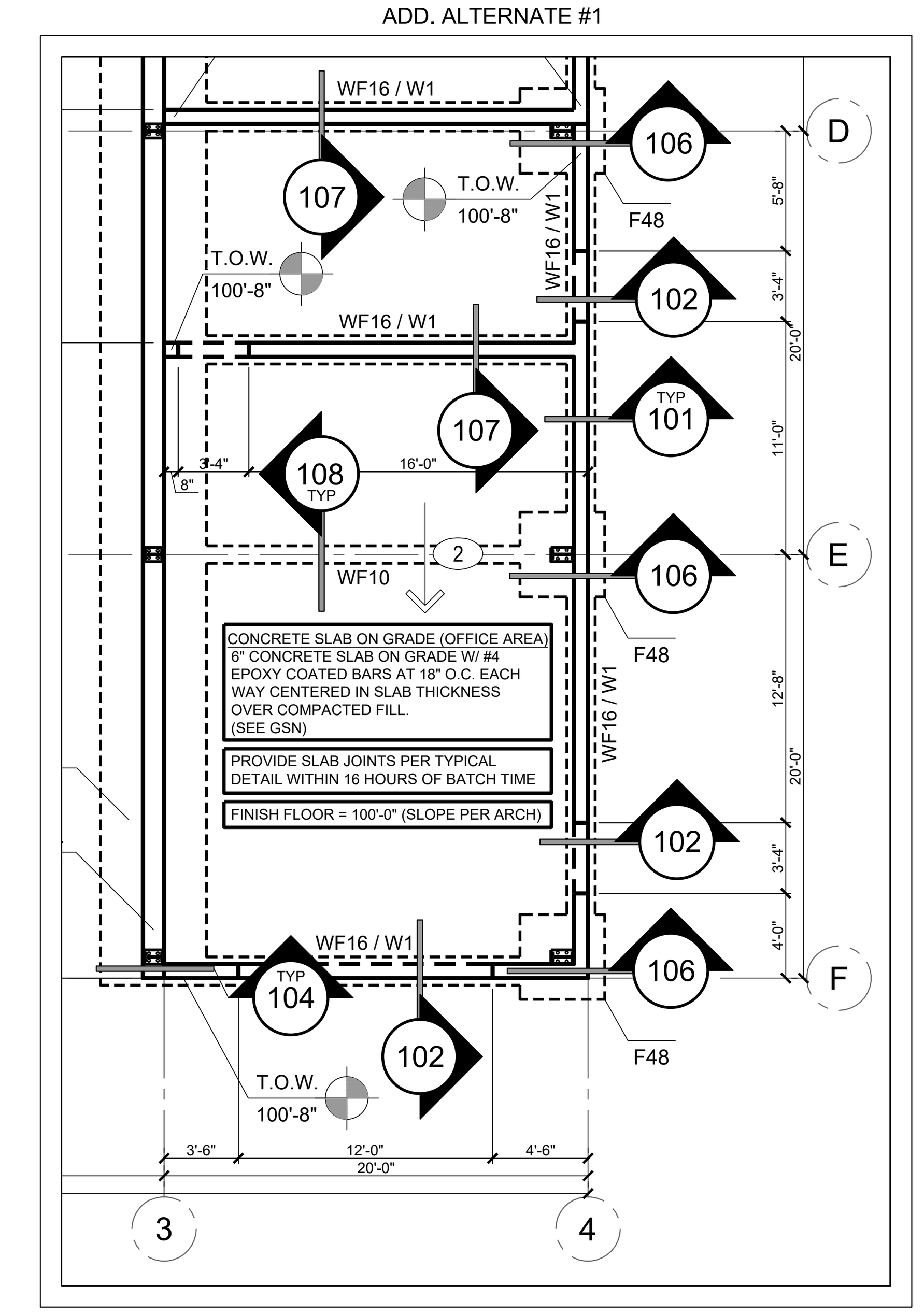
SHEET S1.1 OF



FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

ADD. ALTERNATE #1



WALL (W) SCHEDULE

MARK	THICKNESS AND TYPE	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS
W1	8" CONCRETE	#4 AT 18" O.C. (EPOXY COATED REBAR)	#4 AT 12" O.C. (EPOXY COATED REBAR)	---
W2	12" CONCRETE	#4 AT 12" O.C. EACH FACE (EPOXY COATED REBAR)	#4 AT 12" O.C. EACH FACE (EPOXY COATED REBAR)	---

FOOTING SCHEDULE

NOTES:
1. FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS.
2. FOR MINIMUM CLEARANCE (CLR) OF REINFORCING, SEE GENERAL STRUCTURAL NOTES (GSN).

MARK	LENGTH	WIDTH	THICKNESS	FOOTING REINFORCING	REMARKS
F48	48"	48"	10"	(4) #4 EACH WAY TOP AND BOTTOM	---
WF10	CONT	10"	8"	(2) #4 CONT TOP AND BOTTOM	---
WF16	CONT	16"	10"	(2) #4 CONT BOTTOM	---
WF60	CONT	60"	12"	(5) #4 CONT AND #4 AT 12" O.C. TRANSVERSE, TOP AND BOTTOM	---

FOUNDATION PLAN NOTES

A. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.

B. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.

C. THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.

D. W1, W2, ETC. - AS SHOWN ON PLAN INDICATES CONCRETE OR MASONRY WALLS. SEE WALL SCHEDULE FOR ADDITIONAL INFORMATION.

E. WF18, WF24, ETC. - AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.

F. F36, F48, ETC. - AS SHOWN ON PLAN INDICATES A CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.

G. COLUMN FOOTING SIZES ARE PRELIMINARY SIZES TO BE VERIFIED BY STRUCTURAL ENGINEER OF RECORD BEFORE CONSTRUCTION. PRE-ENGINEERED BUILDING MANUFACTURER SHALL SUBMIT DESIGN CALCULATIONS PRIOR TO FABRICATING BUILDING COMPONENTS. CALCULATIONS SHALL SHOW ALL FOOTING LOAD PER METAL BUILDING MANUFACTURER'S ASSOCIATION "RECOMMENDED DESIGN PRACTICES MANUAL".

HEADED ANCHOR ROD EMBED SCHEDULE

DIAMETER	MINIMUM EMBEDMENT (FROM TOP OF PIER/WALL)
1/2"	12"
5/8"	14"
3/4"	16"
7/8"	18"
1"	20"
1 1/4"	25"

(X) PLAN KEYNOTES

1. SLOPE SLAB (1/8" PER FOOT) TO CONTAINMENT PLANKS, COORDINATE WITH ARCH DRAWINGS

2. ADD. ALTERNATE #1: SLOPE SLAB (1/8" PER FOOT) BACK TO FRONT, COORDINATE WITH ARCH DRAWINGS

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PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER
2/13/23
AIA NCARB ASLA

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:
FOUNDATION PLAN

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE
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DRAWN BY: DB
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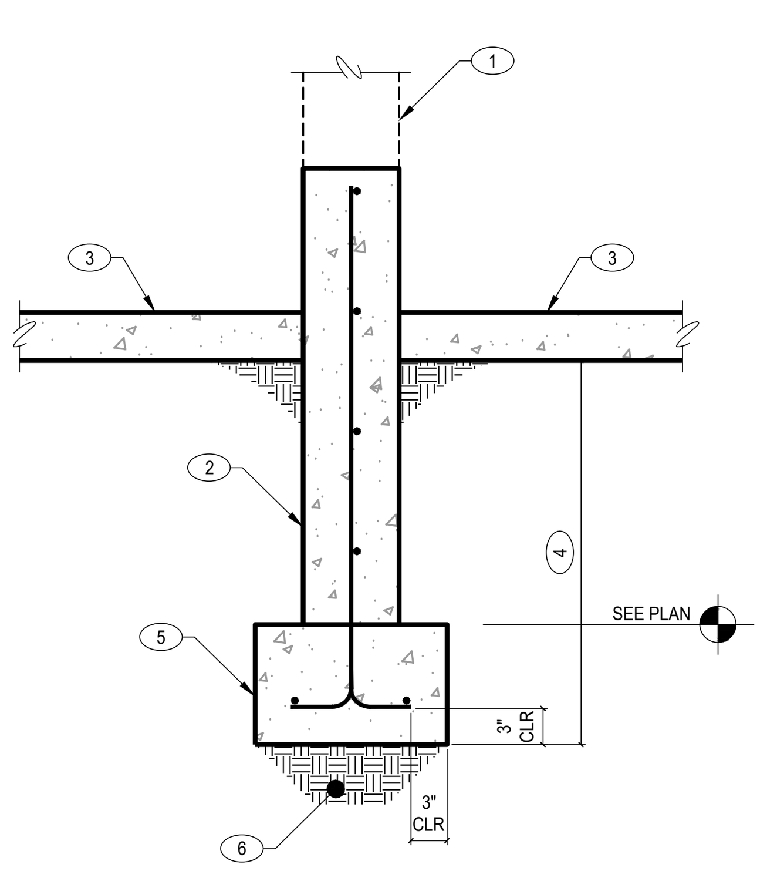
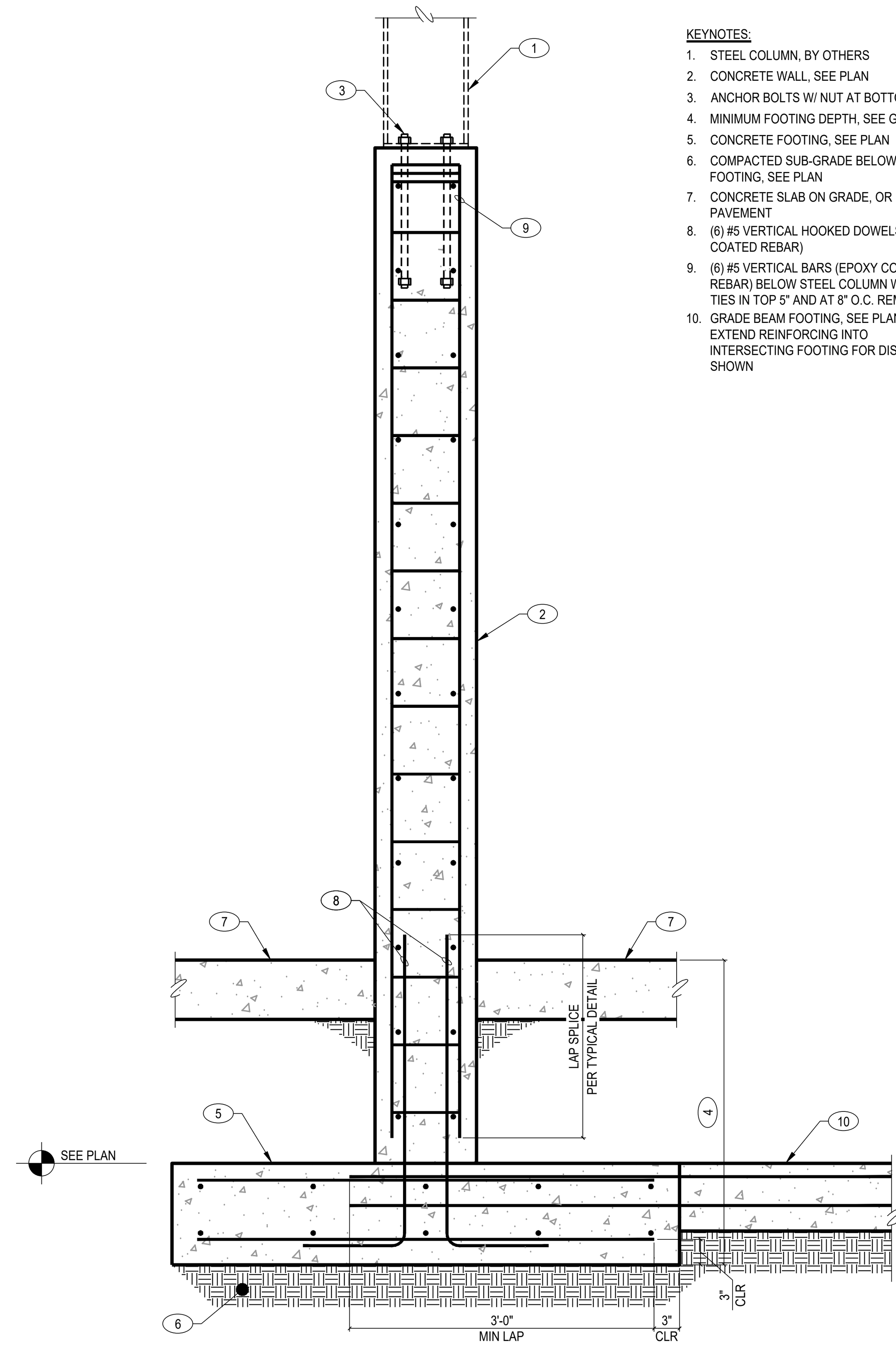
SHEET S2.0 OF



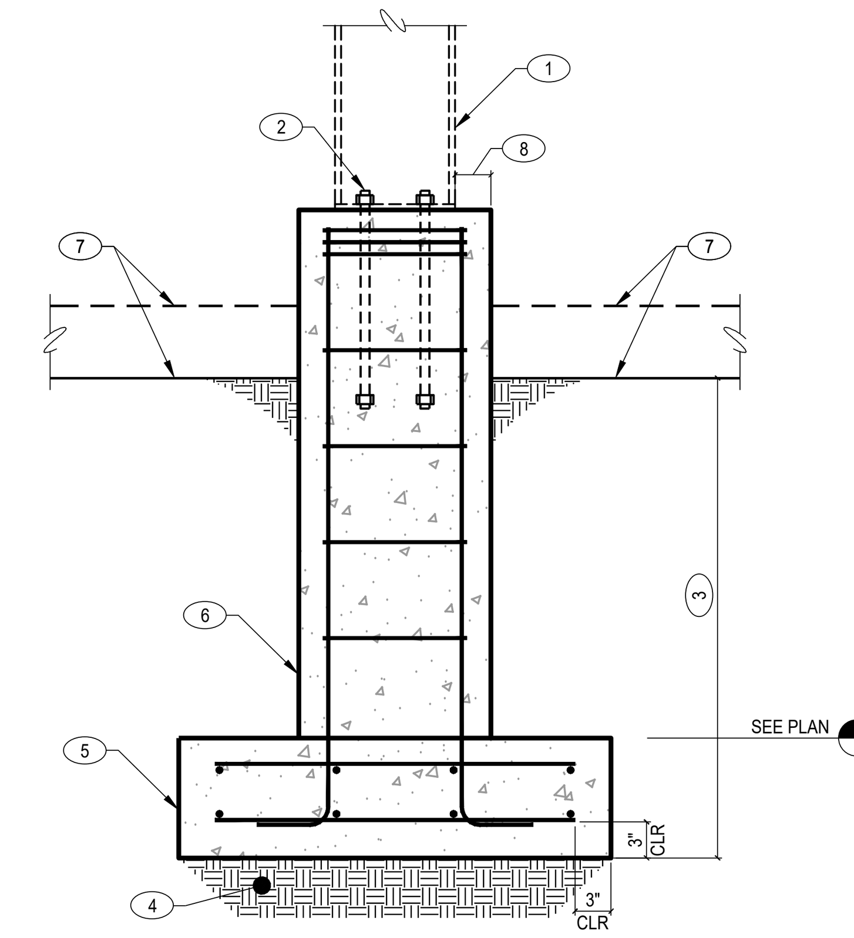
KEYNOTES:
1. PRE-ENGINEERED BUILDING
2. CONCRETE STEM WALL, SEE PLAN
3. CONCRETE SLAB ON GRADE, SEE PLAN
4. MINIMUM FOOTING DEPTH, SEE GSN
5. CONCRETE FOOTING, SEE PLAN
6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN

107 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING

NO SCALE



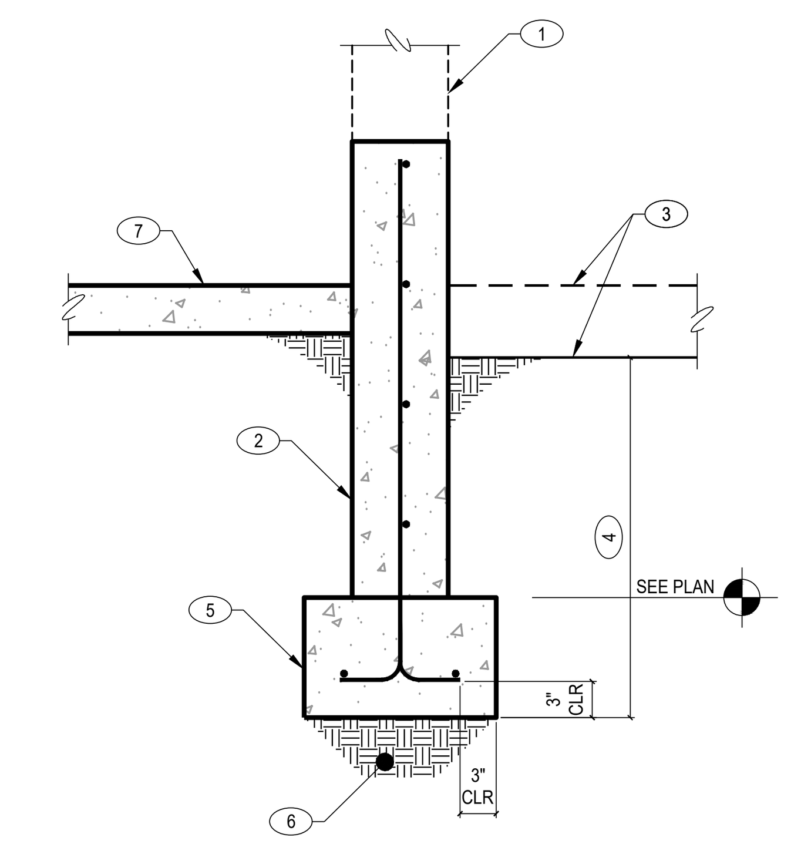
KEYNOTES:
1. STEEL COLUMN, BY OTHERS
2. CONCRETE WALL, SEE PLAN
3. ANCHOR BOLTS W/ NUT AT BOTTOM
4. MINIMUM FOOTING DEPTH, SEE GSN
5. CONCRETE FOOTING, SEE PLAN
6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7. CONCRETE SLAB ON GRADE, OR PAVEMENT
8. (6) #5 VERTICAL HOOKED DOWELS (EPOXY COATED REBAR)
9. (6) #5 VERTICAL BARS (EPOXY COATED REBAR) BELOW STEEL COLUMN W/ (3) #3 TIES IN TOP 5" AND AT 8" O.C. REMAINDER
10. GRADE BEAM FOOTING, SEE PLAN, EXTEND REINFORCING INTO INTERSECTING FOOTING FOR DISTANCE SHOWN



KEYNOTES:
1. STEEL COLUMN BY OTHERS
2. ANCHOR BOLTS W/ NUT AT BOTTOM
3. MINIMUM FOOTING DEPTH, SEE GSN
4. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
5. CONCRETE FOOTING, SEE PLAN
6. CONCRETE PIER W/ (10) #5 HOOKED DOWELS (EPOXY COATED REBAR) AND (3) #3 TIES IN TOP 5" AND AT 8" O.C. REMAINDER
7. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
8. CONCRETE PIER TO EXTEND 2" MINIMUM ALL SIDES OF BASE PLATE

103 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING

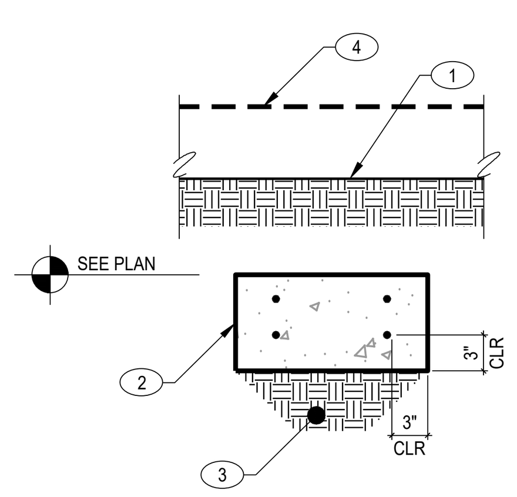
NO SCALE



KEYNOTES:
1. PRE-ENGINEERED BUILDING
2. CONCRETE STEM WALL, SEE PLAN
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
4. MINIMUM FOOTING DEPTH, SEE GSN
5. CONCRETE FOOTING, SEE PLAN
6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7. CONCRETE SLAB ON GRADE, SEE PLAN

101 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING

NO SCALE



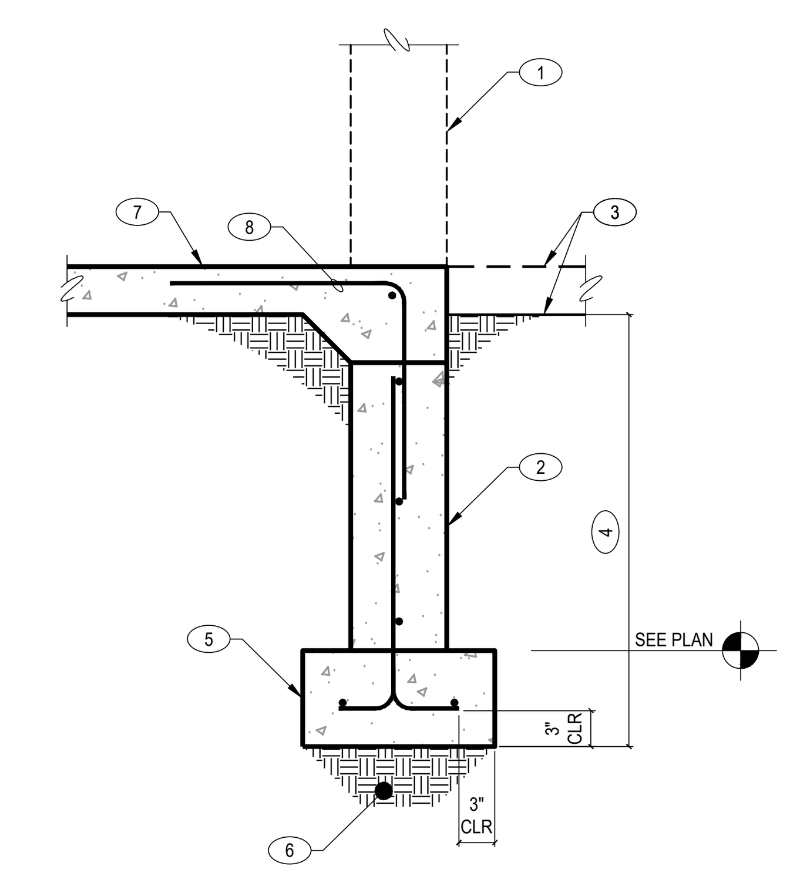
KEYNOTES:
1. FINISH GRADE
2. CONCRETE GRADE BEAM, SEE PLAN
3. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
4. CONCRETE SLAB, WHERE OCCURS

108 CONCRETE GRADE BEAM AT FINISH GRADE

NO SCALE

105 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING

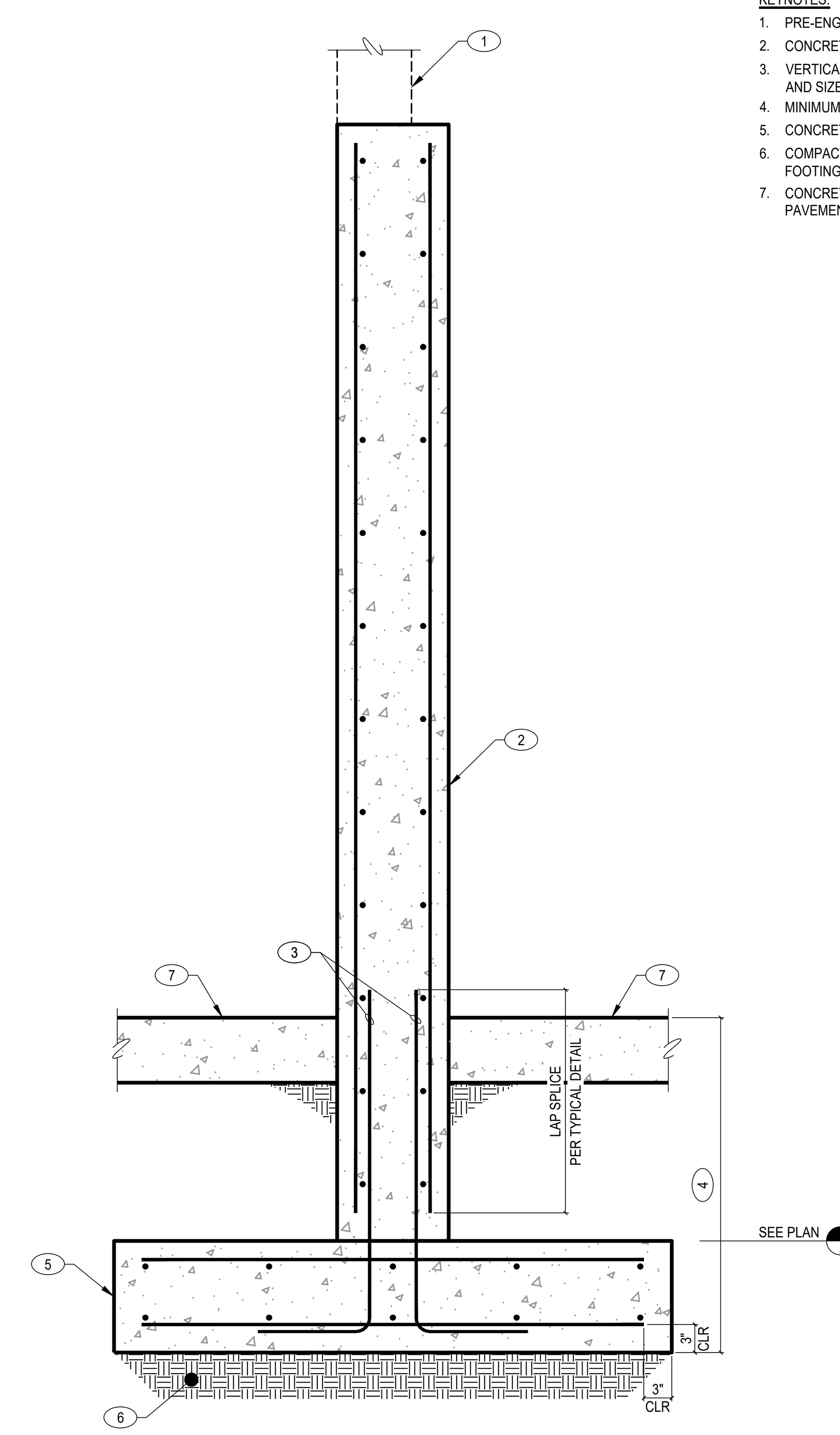
NO SCALE



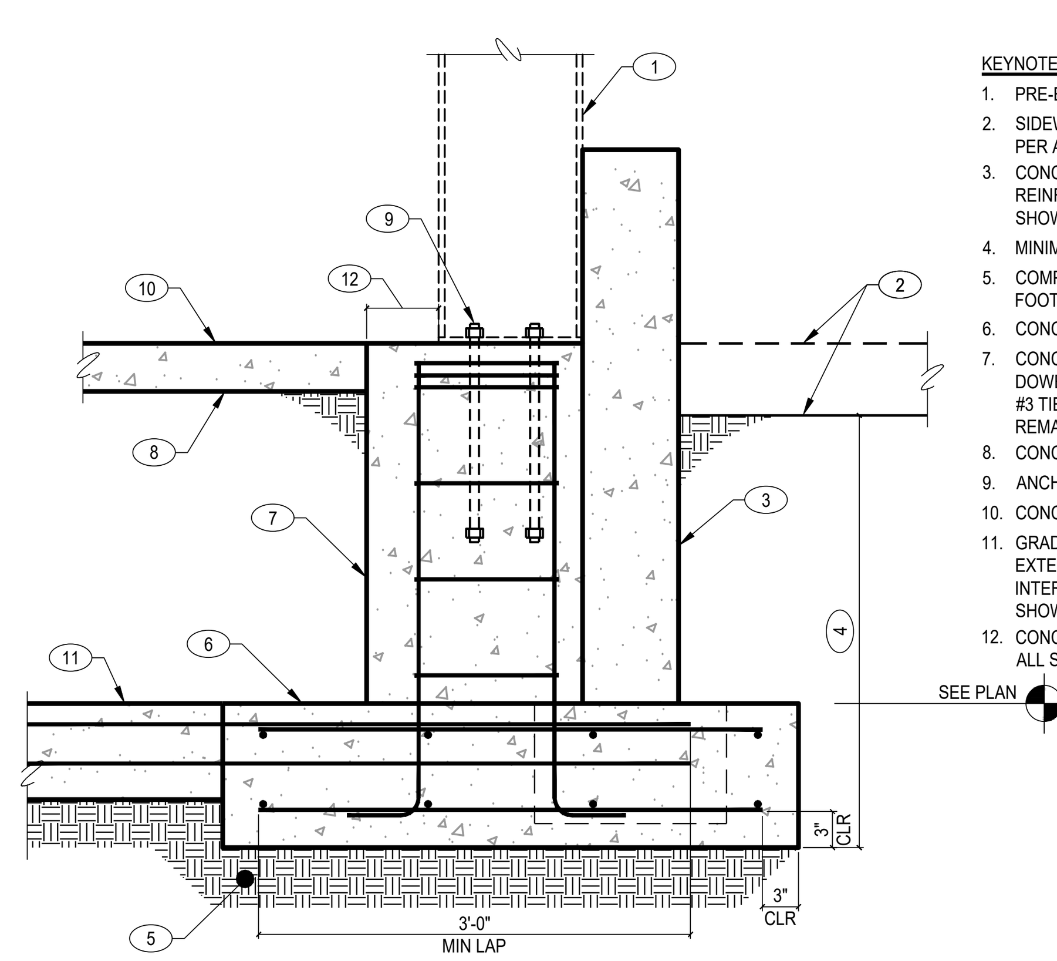
KEYNOTES:
1. PRE-ENGINEERED BUILDING BEYOND
2. CONCRETE STEM WALL, SEE PLAN
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
4. MINIMUM FOOTING DEPTH, SEE GSN
5. CONCRETE FOOTING, SEE PLAN
6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7. CONCRETE SLAB ON GRADE, SEE PLAN
8. #4 BENT DOWEL (EPOXY COATED REBAR) AT 18" O.C.

102 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING

NO SCALE



KEYNOTES:
1. PRE-ENGINEERED BUILDING
2. CONCRETE WALL, SEE PLAN
3. VERTICAL DOWEL TO MATCH SPACING AND SIZE OF WALL REINFORCEMENT
4. MINIMUM FOOTING DEPTH, SEE GSN
5. CONCRETE FOOTING, SEE PLAN
6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7. CONCRETE SLAB ON GRADE, OR PAVEMENT



KEYNOTES:
1. PRE-ENGINEERED COLUMN, SEE PLAN
2. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
3. CONCRETE STEM WALL BEYOND, CONT REINFORCEMENT TROUGH PIER (NOT SHOWN FOR CLARITY)
4. MINIMUM FOOTING DEPTH, SEE GSN
5. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
6. CONCRETE FOOTING, SEE PLAN
7. CONCRETE PIER W/ (10) #5 HOOKED DOWELS (EPOXY COATED REBAR) AND (3) #3 TIES IN TOP 5" AND AT 8" O.C. REMAINDER
8. CONCRETE GRADE BEAM, SEE PLAN
9. ANCHOR BOLTS W/ NUT AT BOTTOM
10. CONCRETE SLAB ON GRADE, SEE PLAN
11. GRADE BEAM FOOTING, SEE PLAN, EXTEND REINFORCING INTO INTERSECTING FOOTING FOR DISTANCE SHOWN
12. CONCRETE PIER TO EXTEND 2" MINIMUM ALL SIDES OF BASE PLATE

106 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING

NO SCALE

104 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING

NO SCALE

THESE DRAWINGS ARE FOR BID AND APPROVAL ONLY AND ARE NOT FOR CONSTRUCTION. THE FOUNDATION WILL NEED TO BE APPROPRIATELY DESIGNED FOR THE FINAL STEEL BUILDING COLUMN REACTIONS.

JOB NO.: IF23-002	PROJECT MANAGER: DBP	CAD OPERATOR: RMS

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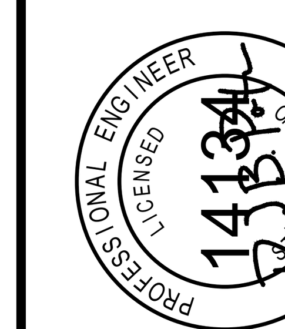

2/13/23

AIA NCARB ASLA

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:
FOUNDATION DETAILS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE
####	.
####	.
####	.

DRAWN BY: DB
CHECKED BY: CB
JOB NUMBER: CLJOBNUM
PROJECT DATE: 2/13/2023
SHEET S3.0 OF

MECHANICAL ABBREVIATIONS

A/C or AC	AIR CONDITIONING	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR
AHU	AIR HANDLING UNIT		
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	LAT	LEAVING AIR TEMPERATURE
		LAV	LAVATORY
BTU	BRITISH THERMAL UNITS	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
BTUH	BTUS PER HOUR	LWT	LEAVING WATER TEMPERATURE
CA	COMBUSTION AIR	MAX	MAXIMUM
CC	COOLING COIL	MCA	MINIMUM CIRCUIT AMPS
CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)	MOCP	MAXIMUM OVERCURRENT PROTECTION
CHWR	CHILLED WATER RETURN	MIN	MINIMUM
CHWS	CHILLED WATER SUPPLY		
CLG	CEILING	NC	NOISE CRITERIA
CW	COLD WATER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
		NTS	NOT TO SCALE
DEG or °	DEGREE		
DIA or Ø	DIAMETER	OSA	OUTSIDE AIR
DB	DRY BULB		
		PD	PRESSURE DROP
EA	EXHAUST AIR	PH or Ø	PHASE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
EER	ENERGY EFFICIENCY RATIO		
ESP	EXTERNAL STATIC PRESSURE	RA	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
		RTU	ROOFTOP UNIT
FCO	FLOOR CLEANOUT		
FD	FIRE DAMPER	SA	SUPPLY AIR
FLA	FULL LOAD AMPS	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FLR	FLOOR	SFD	COMBINATION SMOKE/FIRE DAMPER
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FEET	SYM	SYMBOL
GA	GAUGE	T & P	TEMPERATURE AND PRESSURE
GCO	GRADE CLEANOUT	TEMP	TEMPERATURE
GPM	WATER FLOW RATE (GALLONS PER MINUTE)	TYP	TYPICAL
HC	HEATING COIL	UMC	UNIFORM MECHANICAL CODE
HP	HORSE POWER	UPC	UNIFORM PLUMBING CODE
HVAC	HEATING, VENTILATING, AIR CONDITIONING	URL	URINAL
HW	HOT WATER		
HWR	HOT WATER RETURN	VTR	VENT THROUGH ROOF
HWS	HOT WATER SUPPLY	V	VOLTS
IBC	INTERNATIONAL BUILDING CODE	W/	WITH
IEEC	INTERNATIONAL ENERGY CONSERVATION CODE	WB	WET-BULB
IFC	INTERNATIONAL FIRE CODE	WC	WATER CLOSET
IFGC	INTERNATIONAL FUEL GAS CODE	WCO	WALL CLEANOUT
IMC	INTERNATIONAL MECHANICAL CODE	WH	WATER HEATER
IPC	INTERNATIONAL PLUMBING CODE		

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

MECHANICAL GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) LATEST EDITION, AND ALL LOCAL & STATE CODES.
2. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL & STATE CODES.
3. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
4. MECHANICAL CONTRACTORS SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS THROUGH ANY STRUCTURAL MEMBER.
5. MECHANICAL CONTRACTORS SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
6. THE MECHANICAL CONTRACTORS SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
7. SEE MECHANICAL SCHEDULE SHEET FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.
8. DOMESTIC WATER SERVICE IS PROVIDED WITH A REDUCED PRESSURE BACKFLOW PREVENTER.
9. ALL MECHANICAL EQUIPMENT TO BE PROPOSED MUST BE ON THE APPROVED LIST PRIOR TO SUBMITTALS. ALL APPROVED MANUFACTURERS MUST BE CAPABLE OF MEETING THE REQUIREMENTS OF THE SPECIFIED EQUIPMENT.
10. RUNOUT AND HOOKUP SIZES TO INDIVIDUAL PLUMBING FIXTURE CAN BE FOUND ON THE PLUMBING FIXTURE SCHEDULE.
11. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
12. LOCATE ACCESS HATCHES SO AS TO PROVIDE OPTIMUM SERVICEABILITY TO EQUIPMENT AND/OR VALVING. SEE ARCHITECTURAL SPECIFICATION FOR TYPE AND COLOR. COORDINATE LOCATION WITH STRUCTURAL & LIGHTING.

ADD. ALTERNATES

(1) ADD ALTERNATE NO. 1:
BRINE PRODUCTION AND OBSERVATION ENCLOSURE

A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID INCLUDES ALL FOOTINGS, FOUNDATIONS, AND CONCRETE SLABS ON GRADE AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL EXCLUDE CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. BASE BID EXCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS. BASE BID INCLUDES ELECTRICAL LIGHTING, POWER, AND PLUMBING AS INDICATED ON THE DRAWINGS.

B. ADD ALTERNATE: ALL WORK ASSOCIATED WITH CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. ALTERNATE INCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS INCLUDING ELECTRICAL FOR THE OVERHEAD DOOR OPERATOR AND CONTROLS.

MECHANICAL AND PLUMBING DRAWINGS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(T)	THERMOSTAT		BALL VALVE
#	EQUIPMENT CALLOUT	GCO	GRADE CLEANOUT
	DIRECTION OF AIRFLOW		DOMESTIC COLD WATER (CW)
	REDUCED PRESSURE BACKFLOW PREVENTER		VENT-THROUGH-ROOF
	UNION		VENT
	CAP		SOIL, WASTE, OR SANITARY SEWER

NOTE: THIS IS A LIST OF COMMONLY USED MECHANICAL AND PLUMBING SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ENERGY CODE COMPLIANCE

A. COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.

B. AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE O&M MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM:

1. EQUIPMENT CAPACITY (INPUT & OUTPUT).
2. EQUIPMENT OPERATING AND MAINTENANCE INSTRUCTIONS.
3. CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES.
5. A COMPLETE WRITTEN NARRATIVE ON HOW EACH MECHANICAL SYSTEM IS INTENDED TO OPERATE.

ELECTRIC UNIT HEATER SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	FAN		ELECTRICAL				OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	HP	KW	STEPS	V/Ø	AMPS			
UH-1	BRINE CONTROL B02	SUSPENDED	510	1/30	3.0	1.0	208/1	14.5	50.0	REZNOR MODEL EGHB	1 , 2 , 3 , 4
UH-2	BRINE PRODUCTION B01	SUSPENDED	700	1/30	5.0	1.0	208/1	24.0	50.0	REZNOR MODEL EGHB	1 , 2 , 3 , 4

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: BRASCH, MODINE, QMARK, & MARKEL.
2. PROVIDE UNIT WITH REMOTE WALLED LINE-VOLTAGE PROGRAMMABLE THERMOSTAT EQUAL TO HONEYWELL MODEL TL8130A, AND 4-POINT SUSPENSION KIT.
3. CONTROL BOTH EUH-1 & EUH-2 WITH ONE THERMOSTAT.
4. **PROVIDE WITH BID ALTERNATE #1.**

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645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
PROJECT NO. 23-009

Myers ■ Anderson
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AIA NCARB ASID

PROFESSIONAL ENGINEER
LICENSED
16683
3/16/2023
STATE OF IDAHO
CHRISTOPHER DYKE

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

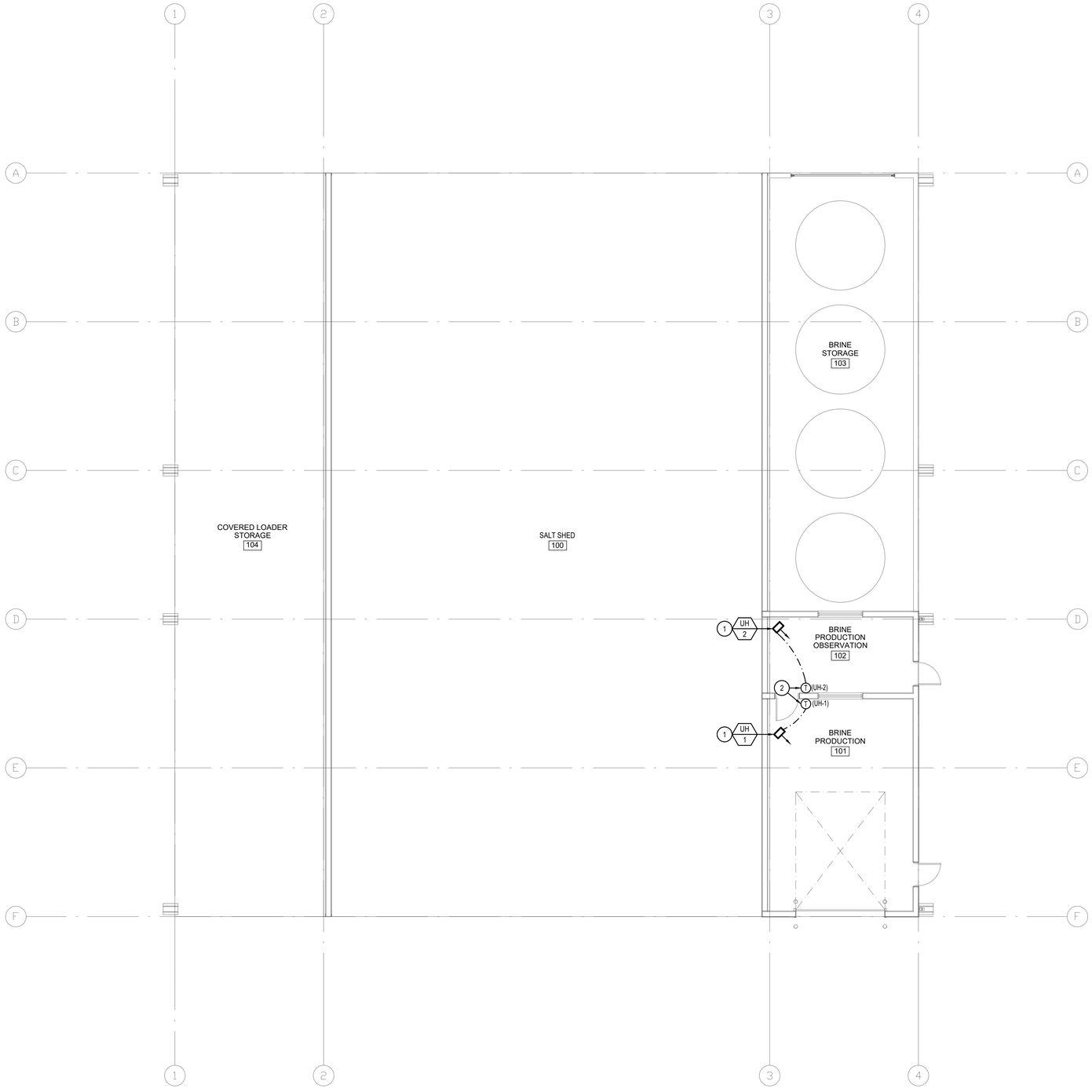
SHEET TITLE:
MECHANICAL TITLE SHEET

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: CD
CHECKED BY: TN
JOB NUMBER: 22567
PROJECT DATE: March 2023
SHEET **M001**



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PROJECT NO. 23-009

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. INSTALL SUSPENDED UNIT HEATER PER MANUFACTURER'S RECOMMENDATIONS.
2. WALL MOUNTED THERMOSTAT.

ADD. ALTERNATES

(1) ADD ALTERNATE NO. 1:
BRINE PRODUCTION AND OBSERVATION ENCLOSURE

A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID INCLUDES ALL FOOTINGS, FOUNDATIONS, AND CONCRETE SLABS ON GRADE AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL EXCLUDE CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. BASE BID EXCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS. BASE BID INCLUDES ELECTRICAL LIGHTING, POWER, AND PLUMBING AS INDICATED ON THE DRAWINGS.

B. ADD ALTERNATE: ALL WORK ASSOCIATED WITH CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. ALTERNATE INCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS INCLUDING ELECTRICAL FOR THE OVERHEAD DOOR OPERATOR AND CONTROLS.

1/M100 HVAC PLAN
SCALE: 1/8" = 1'-0"

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AIA NCARB ASID

PROFESSIONAL ENGINEER LICENSED Residence in Idaho 16683 3/16/2023 STATE OF IDAHO CHRISTOPHER DYKE

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

HVAC PLAN

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: CD
CHECKED BY: TN
JOB NUMBER: 22567
PROJECT DATE: March 2023
SHEET M100

ELECTRICAL LEGEND - LIGHTING

REFERENCE FIXTURE SCHEDULE FOR MOUNTING TYPE, MOUNTING HEIGHT, AND FIXTURE TYPE.

- DOUBLE FACE EXIT SIGN, CEILING MOUNTED, PROVIDE UNSWITCHED CONDUCTOR.
- WALL MOUNTED DOUBLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
- SINGLE FACE EXIT SIGN, CEILING MOUNTED PROVIDE UNSWITCHED CONDUCTOR.
- WALL MOUNTED SINGLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
- ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
- 1'X1' LIGHT FIXTURE.
- 1'X1' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- TRACK LIGHT
- 1'X4' LIGHT FIXTURE.
- 1'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- 2'X4' LIGHT FIXTURE.
- 2'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- 2'X2' LIGHT FIXTURE.
- 2'X2' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
- DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR
- STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
- STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR
- WALL MOUNTED LIGHT FIXTURE.
- WALL MOUNTED LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- ROUND LIGHT FIXTURE
- ROUND EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- WALL MOUNTED LIGHT FIXTURE.
- WALL MOUNTED EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- POLE LIGHT 1 HEAD WITH POLE
- TC — TIME CLOCK
- PC — PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.
- OS — OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS REQUIRED.
- D — LED DRIVER
- EMERGENCY EGRESS LIGHTING WITH OUT FIXTURE HEADS. CONNECT TO AN UNSWITCHED CONDUCTOR.
- EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.
- WALL MOUNTED SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
- CEILING MOUNTED. SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR.
- CEILING MOUNTED. DOUBLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR.
- XXX — INDICATES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.
- EXTERIOR WALL PACK
- EMERGENCY EXTERIOR WALL PACK. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR

DEVICES

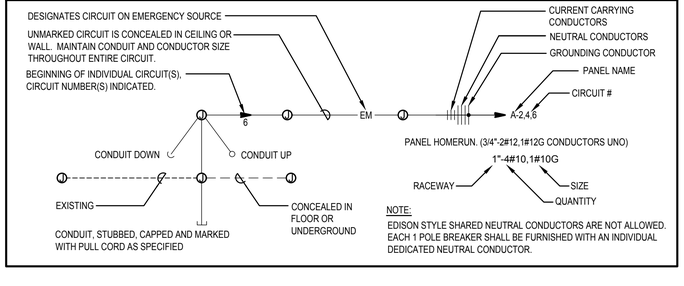
- S — SWITCH, TYPE AS INDICATED. +46"AFF
  - 2 DOUBLE POLE
  - 3 3-WAY
  - 4 4-WAY
  - K KEYED
  - P PILOT LIGHT
  - D DIMMER
  - HP HORSEPOWER RATED
  - TO THERMAL OVERLOAD
  - LV LOW VOLTAGE
  - OS OCCUPANCY SENSOR
  - OR LOW VOLTAGE, MOMENTARY OVERRIDE
  - VS VACANCY SENSOR
  - a SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
- SS — DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- S^{S}_{DS} — DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- S^{OS}_{DS} — OCCUPANCY SENSOR WITH MANUAL DIMMING, SET FOR 50% AUTOMATIC ON, AUTOMATIC OFF, WITH MANUAL DIMMING.
- SINGLE CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT SINGLE CONVENIENCE OUTLET
- DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT DUPLEX CONVENIENCE OUTLET
- EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET
- USB DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- USB FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FOURPLEX CONVENIENCE OUTLET. +18"AFF UNO
- FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET
- CONNECTION POINT TO EQUIPMENT SPECIFIED, ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO
- FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR REQUIREMENTS
- FLOOR MOUNTED JUNCTION BOX
- JUNCTION BOX
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- HC — WALL MOUNTED PUSH BUTTON, HANDICAPPED MOUNT AT SWITCH HEIGHT UNO
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED
- COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED, NEMA 1 UNO
- F — FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO
- NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO
- T (unit-#) — THERMOSTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH DIVISION 15.
- H (unit-#) — HUMIDISTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS.
- POWER POLE - DUAL CHANNEL
- REB — RECESSED ENTERTAINMENT BOX
- T — TRANSFORMER
- PANELBOARD. SEE SCHEDULE FOR TYPE.
- EQUIPMENT CABINET, SURFACE MOUNTED
- EQUIPMENT CABINET FLUSH MOUNTED
- SURFACE MULTI-OUTLET RACEWAY
- # / # — MECHANICAL EQUIPMENT CALL OUT
- # — KITCHEN EQUIPMENT CALLOUT

ONE LINE

- DELTA WYE TRANSFORMER UNO
- # PANEL NAME VOLTAGE PHASE — PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
- ##A / #P — CIRCUIT BREAKER, SIZE AND POLES INDICATED
- ##A — FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
- ##A / #P — INTERRUPTER SWITCH, SIZE AND POLES INDICATED
- ##A / #P — FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
- ##A / #P — DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED
- ###A / #P — INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO
- ###A / #P — INDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO
- GFP — GROUND FAULT PROTECTION
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSION
- LSIGR — ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS):
  - 'L'-LONG TIME
  - 'S'-SHORT TIME
  - 'I'-INSTANTANEOUS
  - 'G'-GROUND FAULT
  - 'R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR
- GROUND
- ST — SHUNT TRIP COIL
- M — MOTOR
- 100A 3P — DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO
- OVERHEAD SERVICE DROP
- ###A/3P — GENERATOR SET, MAIN BREAKER SIZE INDICATED
- AUTOMATIC TRANSFER SWITCH (ATS)
- M — METER AND BASE
- N — NEUTRAL
- T — DRY TYPE TRANSFORMER
- PAD MOUNT TRANSFORMER

NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

CIRCUITING SYMBOLS



NOTE:
EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE NOT ALLOWED. EACH 1 POLE BREAKER SHALL BE FURNISHED WITH AN INDIVIDUAL DEDICATED NEUTRAL CONDUCTOR.

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE BACKSPLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOTTOM OF DECK
BS	BOTTOM OF STRUCTURE
C	CEILING MOUNTED
C	CONDUIT
CB	CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
(D)	DEMOLITION
DEMO	DEMOLITION
DET	DETAIL
DTT	DOUBLE TWIN TUBE
E	EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	EMERGENCY LIGHT
F	FUSE
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
G/GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
J-BOX	JUNCTION BOX
KA	KILOAMP
KVA	KILO VOLT-AMP
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
MB	MAIN BREAKER
MBR	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MMC	MODULAR METERING CENTER
MH	METAL HALIDE
MSB	MAIN SWITCH BOARD
MTG	MOUNTING
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OS	OCCUPANCY SENSOR
P	POLES
PC	PHOTO-CONTROL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE:	REFERENCE
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TK	TOE KICK
TSP	TWISTED SHIELDED PAIR
TRT	TRIPLE TUBE
TTB	TELEPHONE TERMINAL BOARD
(TYP.)	TYPICAL
UC	UNDERCABINET
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHER PROOF/NEMA 3R
PROVIDED/ PROVIDE BY INSTALLED/ INSTALL	PROVIDE AND INSTALL / PROVIDED AND INSTALLED BY / PROVIDE AND INSTALL

NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ELECTRICAL GENERAL NOTES

A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.

B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL, SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.

D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.

E. TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.

F. MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

SITE:

G. CONTRACTOR SHALL COORDINATE WITH AN UNDERGROUND LOCATING SERVICE PRIOR TO COMMENCING WORK. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION. COORDINATE WITH OTHER SITE DISCIPLINES.

H. SITE LIGHTING AND UTILITY EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS, PROPERTY LINES, AND UTILITY COMPANIES PRIOR TO ROUGH-IN.

I. REFER TO POLE BASE DETAIL FOR SITE LIGHTING POLE BASE REQUIREMENTS.

J. ROUTE CONDUITS IN COMMON TRENCH WHERE POSSIBLE REFER TO TRENCHING DETAIL.

COMMUNICATIONS

- JUNCTION BOX FOR FUTURE TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE SINGLE-GANG MUD RING WITH BLANK COVER PLATE. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
- #D,#T — TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
- FLOOR MOUNTED BOX FOR FUTURE TELEPHONE/DATA OUTLET. JUNCTION BOX WITH SINGLE-GANG MUD RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER PLATE.
- #D,#T — FLOOR MOUNTED TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
- IC — INTERCOM SYSTEM CALL BUTTON. +46" UNO.
- SP — CEILING MOUNTED SPEAKER WITH BACKBOX
- SP — WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
- V — VOLUME CONTROL, +46" UNO
- TV — TELEVISION OUTLET, +18" AFF UNO. PROVIDE 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE
- TV — CEILING MOUNTED TELEVISION OUTLET
- TTB — TELEPHONE TERMINAL BOARD
- CT-XX — CABLE TRAY, 4" DEEP, WIRE BASKET STYLE, 'XX' INDICATES WIDTH PROVIDE ALL FITTINGS AND SUPPORT HARDWARE REQUIRED

ADD. ALTERNATES

(1) ADD ALTERNATE NO. 1:
BRINE PRODUCTION AND OBSERVATION ENCLOSURE

A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID INCLUDES ALL FOOTINGS, FOUNDATIONS, AND CONCRETE SLABS ON GRADE AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL EXCLUDE CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. BASE BID EXCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS. BASE BID INCLUDES ELECTRICAL LIGHTING, POWER, AND PLUMBING AS INDICATED ON THE DRAWINGS.

B. ADD ALTERNATE: ALL WORK ASSOCIATED WITH CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. ALTERNATE INCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS INCLUDING ELECTRICAL FOR THE OVERHEAD DOOR OPERATOR AND CONTROLS.

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Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com

PROJECT NO. 23-009

Myers ■ Anderson
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▪ Interior Design
▪ Historic Preservation
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927 Main Street, Suite 300 ▪ Evanston, Wyoming 82930 ▪ Tel: (307) 789 - 0934

PROFESSIONAL ENGINEER
REGISTERED
13299
3/16/2023
STATE OF IDAHO
MATTHEW N. BRADLEY

AIA NCARB ASID

PROJECT:
ITD D4 BLISS YARD
SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

ELECTRICAL TITLE SHEET

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: SBA
CHECKED BY: MNB
JOB NUMBER: 22567
PROJECT DATE: March 2023
SHEET E001

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: ITD D4 BLISS YARD SALT/MATERIAL SHED
Project Type: New Construction

Construction Site:

Owner/Agent:

Designer/Contractor:
Matthew N. Bradley
Musgrove Engineering
645 W 25th St.
Idaho Falls, ID 83402
208-523-2862
mattb@musgrovepa.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
High Performance SWH, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-MATERIALS SHED (Warehouse)	6621	0.48	3178
		Total Allowed Watts =	3178

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-MATERIALS SHED (Warehouse)				
LED 1: A1: 8FT LED STRIP LIGHT: Other:	1	1	72	72
LED 2: A2: 8FT LED STRIP LIGHT: Other:	1	5	72	360
LED 3: X2: LED HIGH BAY: Other:	1	10	95	950
			Total Proposed Watts =	1382

Interior Lighting PASSES: Design 57% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: ITD D4 BLISS YARD SALT/MATERIAL SHED
Project Type: New Construction
Exterior Lighting Zone 2 (Light industrial area with limited nighttime use (LZ2))

Construction Site:

Owner/Agent:

Designer/Contractor:
Matthew N. Bradley
Musgrove Engineering
645 W 25th St.
Idaho Falls, ID 83402
208-523-2862
mattb@musgrovepa.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Pedestrian and vehicular entrances and exits	132 ft of	14	Yes	1848
Loading dock	3100 ft2	0.35	Yes	1085
			Total Tradable Watts (a) =	2933
			Total Allowed Watts =	2933
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Pedestrian and vehicular entrances and exits (132 ft of door width): Tradable Wattage				
LED 2: X1: LED WALL PACK: Other:	1	10	108	1080
Loading dock (3100 ft2): Tradable Wattage				
LED 1: X2: LED HIGHBAY: Other:	1	15	95	1425
			Total Tradable Proposed Watts =	2505

Exterior Lighting PASSES: Design 25% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

ENERGY CODE COMMISSIONING COMPLIANCE NOTES

SECTION 408 SYSTEM COMMISSIONING

IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL BELOW NOTED DOCUMENTS WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY:

A. AS-BUILT DRAWINGS - DRAWINGS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA OF ALL PIECES OF MECHANICAL EQUIPMENT.

B. OPERATING AND MAINTENANCE MANUALS - MANUALS SHALL INCLUDE THE FOLLOWING:

1. SUBMITTAL DATA ON ALL PIECES OF EQUIPMENT REQUIRING MAINTENANCE.
2. MANUFACTURER'S OPERATIONS AND MAINTENANCE DATA ON ALL PIECES OF EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAME AND ADDRESS AND PHONE NUMBER OF OF AT LEAST ONE (1) SERVICE PROVIDED.
4. LIGHTING CONTROL SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, EQUIPMENT AND SYSTEM SCHEMATICS, AND CONTROL SEQUENCES OF OPERATIONS. DESIRED OR FIELD DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT ALL CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN THE SYSTEM PROGRAMMING INSTRUCTIONS.
5. A NARRATIVE ON HOW EACH LIGHTING SYSTEM IN INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

C. LIGHTING SYSTEM FUNCTIONAL TESTING REQUIREMENTS

FUNCTIONAL TESTING - ALL AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE FULLY TESTED TO ENSURE THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, P|ROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE CONTROLS, PHOTOSENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PREFORMED:

1. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
2. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
3. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

D. FINAL LIGHTING SYSTEM FUNCTIONAL REPORT - A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS THE "FINAL LIGHTING CONTROL REPORT" SHALL BE DELIVERED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE FOLLOWING:

1. LIST OF FUNCTIONAL TESTS USED DURING THE COMMISSIONING PROCESS ON EACH PIECE OF EQUIPMENT.
2. RESULTS OF ALL FUNCTIONAL TESTS ON ALL PIECES OF EQUIPMENT.
3. LIST OF DEFICIENCIES FOUND AND CORRESPONDING CORRECTIVE MEASURES EITHER IMPLEMENTED OR PROPOSED ON EACH PIECE OF EQUIPMENT.
4. LIST OF EQUIPMENT NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT WILL FUNCTIONALLY TESTED ONCE CLIMATE CHANGES ALLOW.

ADD. ALTERNATES

(1) ADD ALTERNATE NO. 1:
BRINE PRODUCTION AND OBSERVATION ENCLOSURE

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PROFESSIONAL ENGINEER REGISTERED 13299 3/16/2023 STATE OF IDAHO MATTHEW N. BRADLEY
AIA NCARB AIAID

PROJECT:
ITD D4 BLISS YARD SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

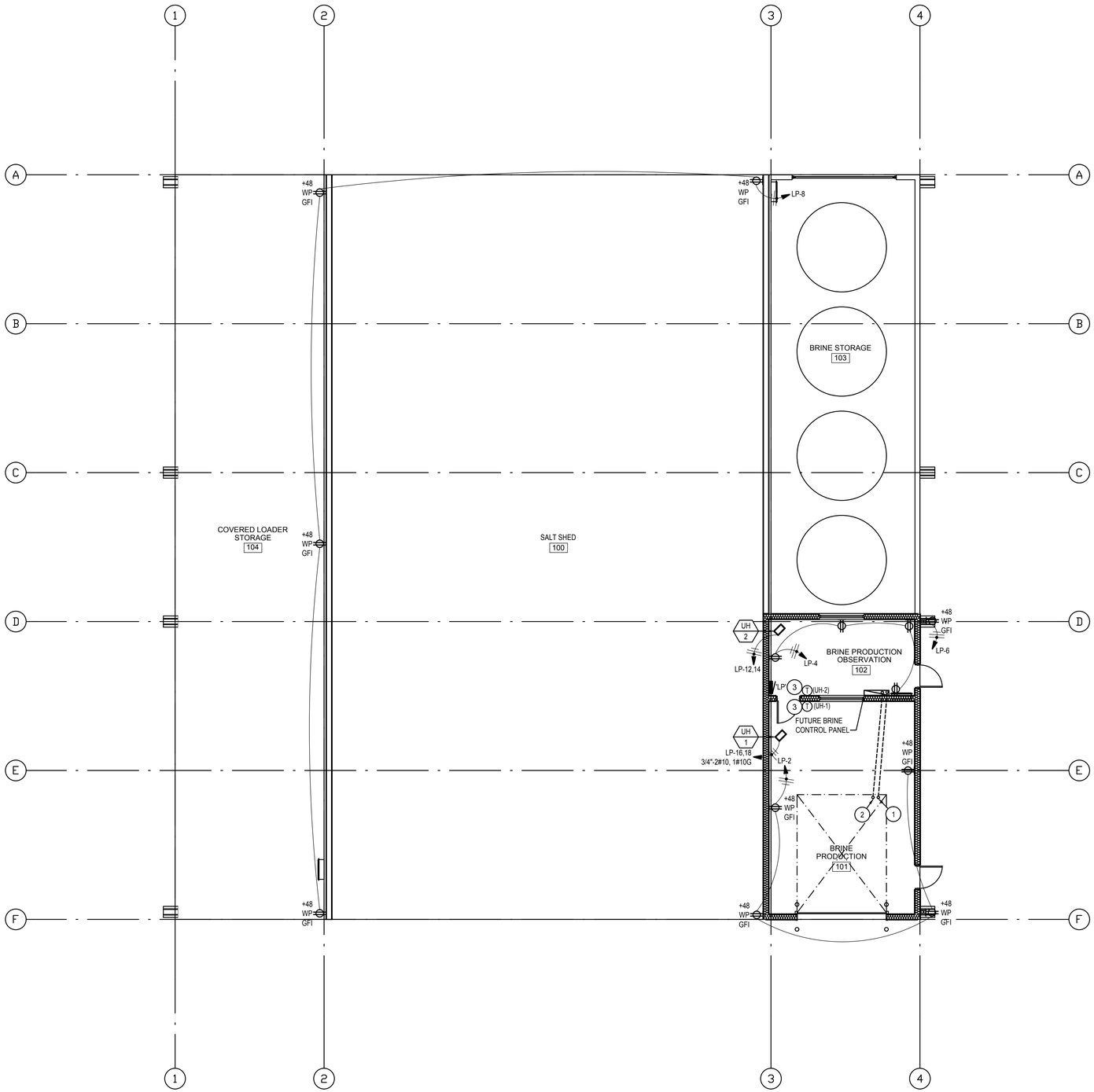
ELECTRICAL TITLE SHEET

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: SBA
CHECKED BY: MNB
JOB NUMBER: 22567
PROJECT DATE: March 2023
SHEET E001



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KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. 1-1/2" UNDER SLAB TO BRINE MACHINE MOTOR LOCATION. VERIFY LOCATION WITH ACTUAL BRINE EQUIPMENT PRIOR TO INSTALLATION.
2. 1-1/2" UNDER SLAB TO BRINE MACHINE CONTROLS LOCATION. VERIFY LOCATION WITH ACTUAL BRINE EQUIPMENT PRIOR TO INSTALLATION.
3. 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT.

ADD. ALTERNATES

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1/E100 ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

N

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AIA NCARB ASID

PROFESSIONAL ENGINEER
REGISTERED
13299
3/16/2023
STATE OF IDAHO
MATTHEW N. BRADLEY

PROJECT:
ITD D4 BLISS YARD
SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

ELECTRICAL PLAN

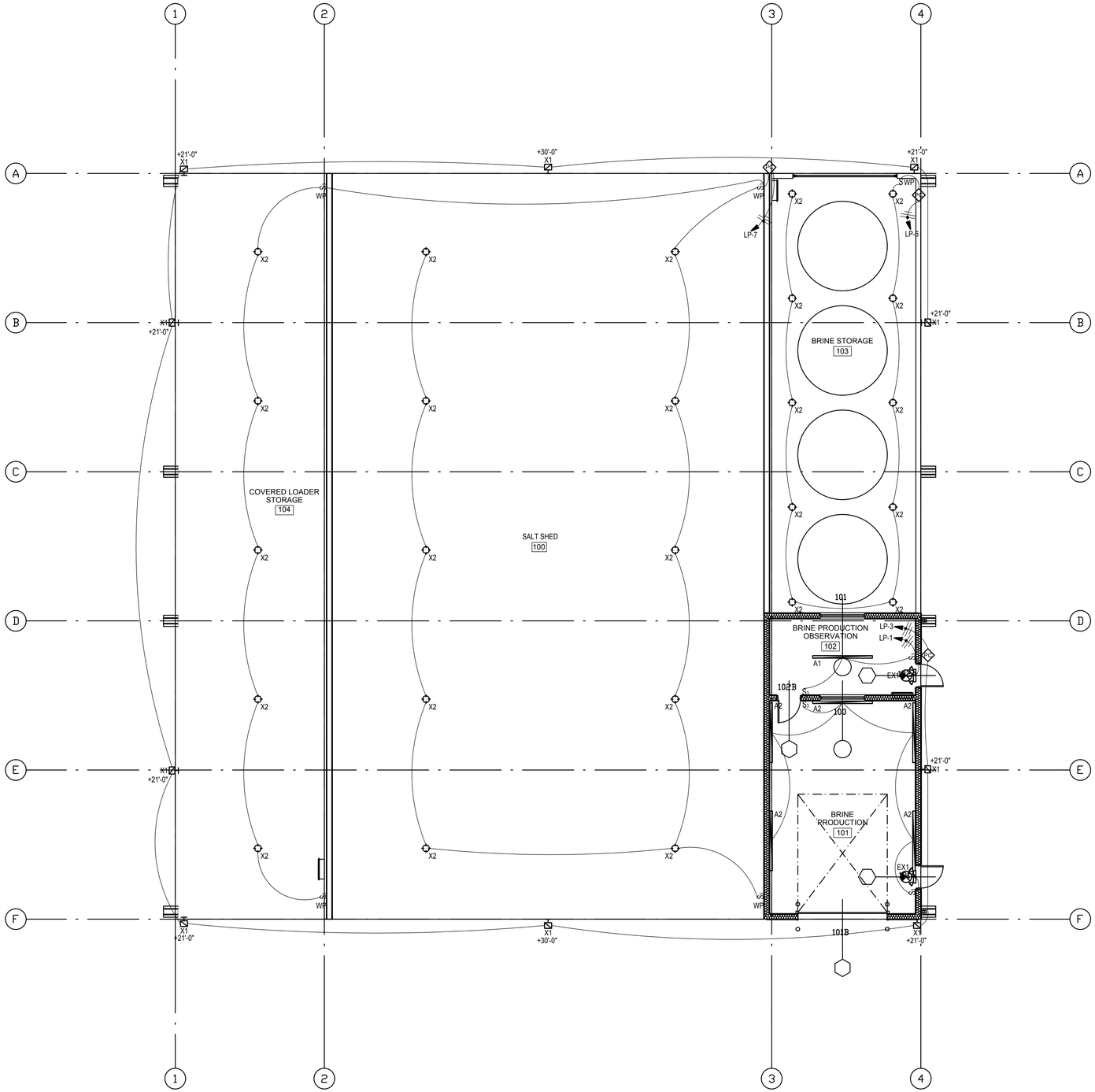
CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: SBA
CHECKED BY: MNB
JOB NUMBER: 22567
PROJECT DATE: March 2023

SHEET
E100



1 / E200 LIGHTING PLAN

SCALE: 1/8" = 1'-0"

N

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MATTHEW N. BRADLEY

PROJECT:
ITD D4 BLISS YARD
SALT/MATERIAL SHED
BLISS, IDAHO

SHEET TITLE:

LIGHTING PLAN

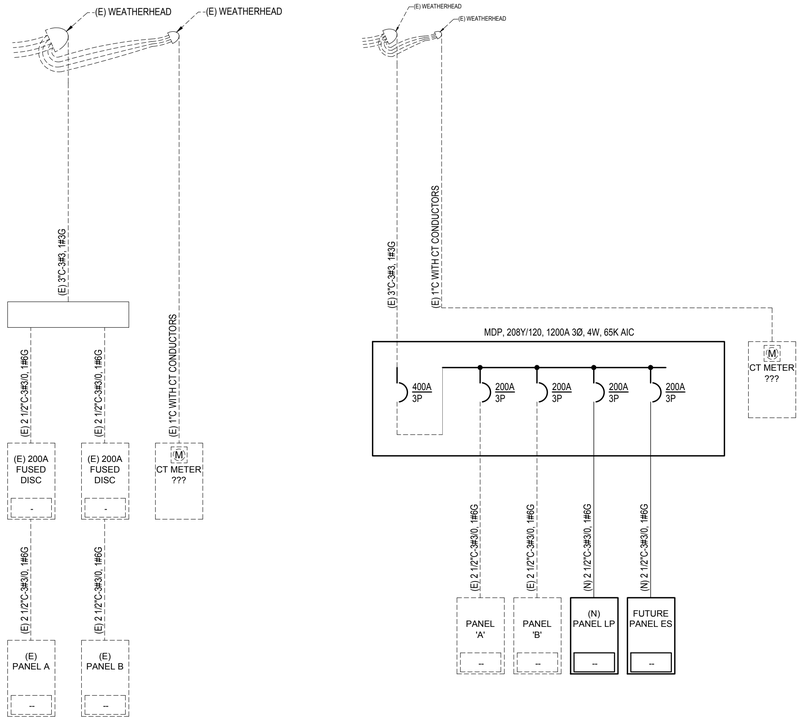
CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: SBA
CHECKED BY: MNB
JOB NUMBER: 22567
PROJECT DATE: March 2023

SHEET
E200



(E) ONE-LINE DIAGRAM
NTS

REVISED ONE-LINE DIAGRAM
NTS

PANEL: LP

PROJECT: ITD D4 BLISS YARD SALT/MATERIAL SHED

VOLTAGE: 240 / 120 V | 1 PH | 3 WIRE | AMPERE RATING: 225A | WITH 200A CB | MOUNTING: SURFACE

BASIS OF DESIGN PANEL TYPE: PANEL BOARD | NEMA ENCLOSURE TYPE: 1 | PANEL AIC RATING: 22000

CKT NOTES:
1. GFCI FOR PERSONNEL PROTECTION (5mA)
2. AFCI COMBINATION STYLE BREAKER

REMARKS:

CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/ POLES	LOAD (VA) A	LOAD (VA) N/A	LOAD (VA) C	AMPS/ POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT
1	LTS - BRINE PROD 101/OBSERV 102		432	3.6	20 1	1332			20 1	7.5	900		REC - BRINE PRODUCTION 101	2
3	LTS - EXTERIOR		1080	9.0	20 1			1800	20 1	6.0	720		REC - BRINE PRODUCTION OBSERV 102	4
5	LTS - BRINE STORAGE 103		950	7.9	20 1	1850			20 1	7.5	900		REC - BRINE STORAGE 103/SALT SHED 100	6
7	LTS - SALT SHED 100/COVERED STOR 104		1425	11.9	20 1			1965	20 1	4.5	540		REC - COVERED LOADER STORAGE 104	8
9	SPARE (FUTURE BRINE PUMP)			0.0	60 2	0			20 2	0.0			SPARE (FUTURE BRINE SYSTEM)	10
11				0.0	** *			0	** *	0.0				12
13	SPARE (FUTURE BRINE PUMP)			0.0	60 2	1500			20 1	12.5	1500		UNIT HEATER (3kW) - ALT #1	14
15				0.0	** *			1500	** 1	12.5	1500		***	16
17	SPARE			0.0	20 1	2500			60 2	20.8	2500		UNIT HEATER (10kW) - ALT #1	18
19	SPARE			0.0	20 1			2500	** *	20.8	2500		***	20
21	SPARE			0.0	20 1	0			20 2	0.0			SPARE	22
23	SPARE			0.0	20 1			0	** *	0.0			***	24
25	SPARE			0.0	20 1	0			20 1	0.0			SPARE	26
27	SPARE			0.0	20 1			0	20 1	0.0			SPARE	28
29	SPARE			0.0	20 1	0			20 1	0.0			SPARE	30
						7182.0		7765.0	VA					
						59.9		64.7	AMPS				14947 TOTAL VA	

LIGHTING FIXTURE SCHEDULE (23-009)

TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY	NOTES
A1	MVOLT, (120-277) 8FT LED STRIP LIGHT 8,596 LUMENS, 80CRI WITH 10FT AIRCRAFT CABLES	SUSPENDED +108	LED 40K	72	LITHONIA NO. CSS-L96-4000LM-MVOLT-40K-80CRI-ZACVH	LIGHTOLIER METALUX H.E. WILLIAMS	1
A2	MVOLT, (120-277) 8FT LED STRIP LIGHT 8,596 LUMENS, 80CRI	WALL +108	LED 40K	72	LITHONIA NO. CSS-L96-4000LM-MVOLT-40K-80CRI	LIGHTOLIER METALUX H.E. WILLIAMS	1
EX1	120-277V EXIT/EMERGENCY LIGHT COMBO GREEN FACE	WALL +96	LED 40K	3	LITHONIA NO. LHQM-LED-G	LIGHTOLIER METALUX H.E. WILLIAMS	1
X1	MVOLT, LED WALL PACK 2,900-13,850 LUMENS MEDIUM DISTRIBUTION	WALL +16FT	LED 40K	108	LITHONIA NO. TWX3-LED-ALO-40K-MVOL-DDBTXD	LIGHTOLIER METALUX H.E. WILLIAMS	1
X2	MVOLT, LED HIGH BAY 13,630 LUMENS WITH SURFACE MOUTING KIT	SURFACE MOUNT TO STRUCTURE	LED 40K	95	LITHONIA NO. JEBL-12L-40K-80CRI-WH-JEBLSMB1-M6	LIGHTOLIER METALUX H.E. WILLIAMS	1

LIGHTING FIXTURE SCHEDULE NOTES:

1 SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF: 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED FIXTURES MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.

ADD. ALTERNATES

(1) ADD ALTERNATE NO. 1:
BRINE PRODUCTION AND OBSERVATION ENCLOSURE

A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID INCLUDES ALL FOOTINGS, FOUNDATIONS, AND CONCRETE SLABS ON GRADE AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL EXCLUDE CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. BASE BID EXCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS. BASE BID INCLUDES ELECTRICAL LIGHTING, POWER, AND PLUMBING AS INDICATED ON THE DRAWINGS.

B. ADD ALTERNATE: ALL WORK ASSOCIATED WITH CONSTRUCTION OF PRE-ENGINEERED METAL BUILDING WALLS AND FINISHES WHERE INDICATED ON THE DRAWINGS TO ENCLOSE THE BRINE PRODUCTION AND BRINE PRODUCTION OBSERVATION SPACE. ALTERNATE INCLUDES ALL WINDOWS, DOORS, AND INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS INCLUDING ELECTRICAL FOR THE OVERHEAD DOOR OPERATOR AND CONTROLS.

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
PROJECT NO. 23-009

Myers ■ Anderson
▪ Architecture
▪ Interior Design
▪ Historic Preservation
122 South Main Street • Pocatello, Idaho 83204 • Tel.: (208) 232 - 3741 • Fax: (208) 232 - 3782
927 Main Street, Suite 300 • Evanston, Wyoming 82930 • Tel.: (307) 789 - 0934

PROFESSIONAL ENGINEER REGISTERED 13299 3/16/2023 STATE OF IDAHO MATTHEW N. BRADLEY
AIA NCARB ASID

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BLISS, IDAHO

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ELECTRICAL DETAILS

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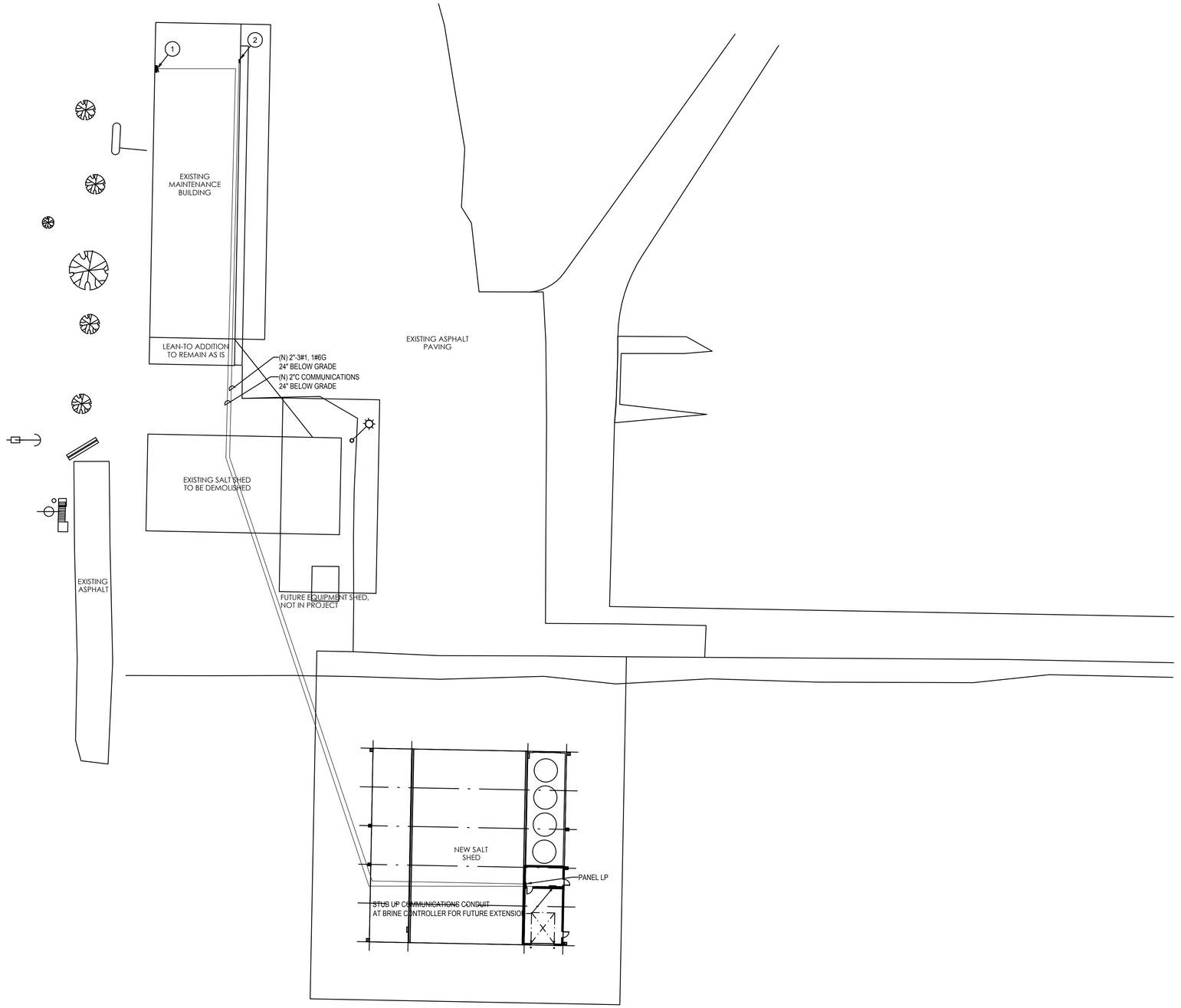

1 SE100 ELECTRICAL SITE PLAN

SCALE: 1" = 30'

N

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. EXISTING LOCATION OF PANEL BOARD 200A 208/120V 3 PHASE. INSTALL NEW 100 AMP 2 POLE CIRCUIT BREAKER IN BRANCH CIRCUIT LOCATIONS __,__.
2. EXISTING NETWORK RACK END CONDUIT AT NETWORK RACK NEW CONDUIT FOR NEW MATERIALS SHED.

ADD. ALTERNATES

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